316 cy

TREATMENT OF STORAGE WASTE

Assume that the stored mixed waste will take 6 months to treat and the maximum of waste allowed will need to be treated.

Treat stored waste to LDR using permitted treatment processes.

7,000 cubic yards awaiting treatment are allowed at the facility of which 50 cy is funded separately for Thermal Desorption: 15,625 total

Haul volume

Assume closure is completed within 24 month period. Existing buildings will be demolished and temporary facilities brought in.

Assume use of existing clean line and office facilities for half of closure period; trailers to be brought in for half

Clean Line- Assume 50' x 12' trailer

Field Office- Assume 50' x 12' trailer

Trailer delivery - assume 150 miles round trip from Salt Lake City per trailer

Temporary Decontamination facility- assume use of existing pads as long as possible; will need temporary pad for 2 months.

issume an storage page are excavated 0.5 it deep, the	FACILITY pad base is 1 ft thick (ab	nove grade) througho	out the site		
EXCAVATION	pad base is 1 it tillor (ac	ove grade, unoughe	out the site.		
East Container Storage Area (includes 150' x 16	60' holding area at the so	uth end of the pad)			
Asphalt	500 ft I x	160 ft w x	4 in th	=	988 cy
•	500 ft I x	160 ft w		=	8889 sy
Storage Pad Base	500 ft I x	160 ft w x	0.67 ft th	=	1986 cy
Soil Excavation	500 ft I x	160 ft w x	0.5 ft th	=	1482 cy
Southeast Container Storage Area (concrete up	grade October 2003; dra	wing 03023-C03)			
Concrete	70 ft I x	96 ft w x	10 in th	=	208 cy
	70 ft I x	96 ft w		=	6720 sf
Storage Pad Base	70 ft I x	96 ft w x	0.67 ft th	=	167 cy
Soil Excavation	70 ft I x	96 ft w x	0.5 ft th	=	125 cy
South Container Storage Area (resurfacing upgr	rade September 2000; dr	awing 0013-01)			
Asphalt	383 ft I x	117 ft w x	4 in th	=	554 cy
	383 ft I x	117 ft w		=	4979 sy
Storage Pad Base	383 ft I x	117 ft w x	1 ft th	=	1660 cy
Soil Excavation	383 ft I x	117 ft w x	0.5 ft th	=	830 cy
Drainage Trough upgrade (2000)					
Concrete bottom	340 ft I x	3 ft w x	8 in th	=	26 cy
	340 ft I x	3 ft w		=	1020 sf
Concrete sides	340 ft I x	4.5 ft ht x	6 in th	=	29 cy
	340 ft I x	4.5 ft w		=	1530 sf
(Note: Two sides with width increasing from	n 0.5' to 4' as the trough	slopes east to west;	calculated as a single	e 4.5' wide wall)	
Central Container Storage Area					
Asphalt	300 ft I x	65 ft w x	4 in th	=	241 cy
	300 ft I x	65 ft w		=	2167 sy
Storage Pad Base	300 ft I x	65 ft w x	0.67 ft th	=	484 cy
Soil Excavation	300 ft I x	65 ft w x	0.5 ft th	=	362 cy
Total					9087.0 cy
Debris Excavation					2046.0 cy
					•
Soil Excavation					7096 cy
Soil Excavation Restoration of Grade (soil excavation volume or	nly)			=	7096 cy 2797 cy
Soil Excavation	nly)			=	7096 cy
Soil Excavation Restoration of Grade (soil excavation volume or Final Grade W TRUCK UNLOADING FACILITY This is the 'outside' dock located south of the East Entire facility is maintained outside of the Restricted	Container Storage Area; d Area.			=	7096 cy 2797 cy
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1967 sf

1064 sf

Fire Pump	ASSUMED TO BE	SAME AS SALVAGE V	ALUE FOR THE FOL	LOWING:		
W . D						
Water Pump Water Tank						
DEMOLITION						
Pump House Steel Exterior						
Wall Dimensions	North	20 ft I x	10 ft ht x	3 in th	=	2 cy
Wall Dimensions	South	20 ft I x	10 ft ht x	3 in th	=	2 cy
Wall Dimensions	East	14 ft I x	10 ft ht x	3 in th	=	2 cy
Wall Dimensions	West	14 ft I x	10 ft ht x	3 in th	=	2 cy
Roof Dimensions		23 ft I x	15 ft w x	3 in th	=	4 cy
Building Demolition Volume	9	20 ft I x	14 ft w x	10 ft ht		2800 cf
Debris Volume Pump House						12 cy
Floors		20 ft I x	14 ft w x	8 in th	=	7 c
Debris Volume		20 K 1 X	71 K W X	<u> </u>		7 cy
Foundation (Pump House)						
Foundation (Pump House) Stem Wall			68 ft I x	2 ft ht	=	136 sf
Footing Dimensions			68 ft I x	1 ft w	=	68 sf
Debris Volume						68 sf
Debris Volume Estimate						
Stem Wall			136.0 sf x	6 in th	=	3 cy
Footing			68.0 sf x	2 ft w	=	6 cy
Debris total pump house						9 cy
Total Debris volume						28 c
EXCAVATION						
None needed, outside of Rest	ricted Area					
=						
Figure 9517-1,9517-2,9517 DECONTAMINATION	-3,9535-2,9535-3					
DECONTAMINATION Wash Tank #0080		rinse to RCRA standard				
DECONTAMINATION Wash Tank #0080 Top Dimensions		10 ft I x	7 ft w x	0.25 in th	=	
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions		10 ft x 10 ft x	7 ft w x 7 ft w x	0.25 in th 0.25 in th	=	1.46 cl 1.46 cl
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions		10 ft x 10 ft x 10 ft x	7 ft w x 7 ft w x 6 ft w x	0.25 in th 0.25 in th 0.25 in th	= =	1.46 cf 1.25 cf
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions		10 ft x 10 ft x	7 ft w x 7 ft w x	0.25 in th 0.25 in th	=	1.46 cf
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions		10 ft x 10 ft x 10 ft x 10 ft x	7 ft w x 7 ft w x 6 ft w x 6 ft w x	0.25 in th 0.25 in th 0.25 in th 0.25 in th	= = =	1.46 cf 1.25 cf 1.25 cf
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy)		10 ft x 10 ft x 10 ft x 10 ft x 10 ft x 7 ft x	7 ft w x 7 ft w x 6 ft w x 6 ft w x 6 ft w x	0.25 in th	= = = =	1.46 ct 1.25 ct 1.25 ct 0.87 ct 0.87 ct
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Usual Dimensions Debris Volume (cy) Sludge Tank #0275		10 ft x 10 ft x 10 ft x 10 ft x 10 ft x 7 ft x 7 ft x	7 ft w x 7 ft w x 6 ft w x	0.25 in th 0.25 in th 0.25 in th 0.25 in th 0.25 in th 0.25 in th	= = = = =	1.46 ct 1.25 ct 1.25 ct 0.87 ct 0.87 ct 0.3 cy
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Sludge Tank #0275 Top Dimensions		10 ft x 10 ft x 10 ft x 10 ft x 10 ft x 7 ft x 7 ft x	7 ft w x 7 ft w x 6 ft w x 6 ft w x 6 ft w x 5 ft w x	0.25 in th 0.25 in th 0.25 in th 0.25 in th 0.25 in th 0.25 in th	= = = = = = = = = = = = = = = = = = = =	1.46 ct 1.25 ct 1.25 ct 0.87 ct 0.87 ct 0.3 ct
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Sludge Tank #0275 Top Dimensions Bottom Dimensions		10 ft x 10 ft x 10 ft x 10 ft x 10 ft x 7 ft x 7 ft x 12 ft x 12 ft x	7 ft w x 7 ft w x 6 ft w x 6 ft w x 6 ft w x 6 ft w x 7 ft w x 8 ft w x	0.25 in th 0.25 in th 0.25 in th 0.25 in th 0.25 in th 0.25 in th 0.25 in th	= = = = = =	1.46 ct 1.25 ct 1.25 ct 0.87 ct 0.87 ct 0.3 ct 1.25 ct
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Sludge Tank #0275 Top Dimensions Bottom Dimensions Wall Dimensions		10 ft x 10 ft x 10 ft x 10 ft x 10 ft x 7 ft x 7 ft x 12 ft x 12 ft x 12 ft x	7 ft w x 7 ft w x 6 ft w x	0.25 in th	= = = = = = = = = = = = = = = = = = = =	1.46 ct 1.25 ct 1.25 ct 0.87 ct 0.87 ct 0.3 cy 1.25 ct 1.25 ct
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DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Sludge Tank #0275 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Misc equipment decontaminat DEMOLITION Mixed Waste Storage building	Both Tanks Triple ion (2 days) (building metal exte	10 ft x 10 ft x 10 ft x 10 ft x 10 ft x 7 ft x 7 ft x 12 ft x 12 ft x 12 ft x	7 ft w x 7 ft w x 6 ft w x 6 ft w x 6 ft w x 6 ft w x 7 ft w x 6 ft w x 6 ft w x 6 ft w x 7 ft w x 8 ft w x 9 ft w x	0.25 in th	= = = = = = = =	1.46 ct 1.25 ct 1.25 ct 0.87 ct 0.87 ct 0.3 cy 1.25 ct 1.25 ct 1.50 ct 0.2 cy
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Sludge Tank #0275 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Misc equipment decontaminat DEMOLITION Mixed Waste Storage building Wall Dimensions	Both Tanks Triple ion (2 days) (building metal exte	10 ft x 10 ft x 10 ft x 10 ft x 10 ft x 7 ft x 7 ft x 12 ft x 12 ft x 12 ft x 12 ft x	7 ft w x 7 ft w x 6 ft w x 6 ft w x 6 ft w x 6 ft w x 7 ft w x 6 ft w x 6 ft w x 7 ft w x 8 ft w x 9 ft w x	0.25 in th	= = = = = = = = =	1.46 ct 1.25 ct 1.25 ct 0.87 ct 0.87 ct 0.3 cy 1.25 ct 1.50 ct 0.2 cy
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DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Sludge Tank #0275 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Misc equipment decontaminat DEMOLITION Mixed Waste Storage building Wall Dimensions Wall Dimensions Wall Dimensions	Both Tanks Triple ion (2 days) (building metal extered North South East	10 ft x 7 ft x 7 ft x 12 ft x 12 ft x 12 ft x 12 ft x 10 ft x 10 ft x 10 ft x	7 ft w x 7 ft w x 6 ft w x 7 ft w x 8 ft w x 9 ft w x 7 ft w x 7 ft w x 8 ft w x 9 ft ht x 9 ft ht x 9 ft ht x 9 ft ht x	0.25 in th 0.3 in th 3 in th 3 in th	= = = = = = = = =	1.46 cd 1.25 cd 1.25 cd 0.87 cd 0.87 cd 0.3 cd 1.25 cd 1.50 cd 1.50 cd 0.2 cd 21 cd 21 cd 13 cd
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Sludge Tank #0275 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Misc equipment decontaminat DEMOLITION Mixed Waste Storage building Wall Dimensions Wall Dimensions	Both Tanks Triple ion (2 days) (building metal extern North South	10 ft x 10 ft x 10 ft x 10 ft x 10 ft x 7 ft x 7 ft x 12 ft x 12 ft x 12 ft x 12 ft x 12 ft x 10 ft x	7 ft w x 7 ft w x 6 ft w x 6 ft w x 6 ft w x 6 ft w x 7 ft w x 8 ft w x 9 ft w x 7 ft ht x 7 ft w x 8 ft w x 9 ft ht x 9 ft ht x	0.25 in th 0.3 in th 3 in th	= = = = = = = = = =	1.46 ct 1.25 ct 1.25 ct 0.87 ct 0.87 ct 0.3 cy 1.25 ct 1.50 ct 1.50 ct 0.2 cy
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Sludge Tank #0275 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Misc equipment decontaminat DEMOLITION Mixed Waste Storage building Wall Dimensions	Both Tanks Triple ion (2 days) (building metal extered North South East West	10 ft x 7 ft x 7 ft x 12 ft x 12 ft x 12 ft x 12 ft x 10 ft x 10 ft x 10 ft x 10 ft x 60 ft x	7 ft w x 7 ft w x 6 ft w x 7 ft w x 8 ft w x 8 ft w x 9 ft ht x 9 ft ht x 9 ft ht x 9 ft ht x	0.25 in th 0.3 in th 3 in th 3 in th 3 in th	= = = = = = = = = = = =	1.46 cd 1.25 cd 1.25 cd 0.87 cd 0.87 cd 0.3 cd 1.25 cd 1.50 cd 1.50 cd 0.2 cd 21 cd 21 cd 13 cd 13 cd 13 cd
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Sludge Tank #0275 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Roof Dimensions	ion (2 days) (building metal extered North South East West Interior	10 ft x 7 ft x 7 ft x 12 ft x 10 ft x 10 ft x 60 ft x 60 ft x 105 ft x	7 ft w x 7 ft w x 6 ft w x 6 ft w x 6 ft w x 6 ft w x 5 ft w x 6 ft w x 6 ft w x 25 ft w x 6 ft w x	0.25 in th 0.3 in th 3 in th	= = = = = = = = = = = = = = =	1.46 cd 1.25 cd 1.25 cd 0.87 cd 0.87 cd 0.3 cd 1.25 cd 1.50 cd 1.50 cd 0.2 cd 21 cd 21 cd 21 cd 13 cd 14 cd 15 cd 16 cd 16 cd 16 cd 17 cd 17 cd 18 cd
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Sludge Tank #0275 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Misc equipment decontaminat DEMOLITION Mixed Waste Storage building Wall Dimensions	ion (2 days) (building metal exte North South East West Interior	10 ft x 7 ft x 7 ft x 12 ft x 15 ft x 16 ft x 17 ft x	7 ft w x 7 ft w x 6 ft w x 6 ft w x 6 ft w x 6 ft w x 5 ft w x 5 ft w x 6 ft w x 6 ft w x 25 ft w x 6 ft ht x 22 ft ht x 22 ft ht x 64 ft ht x	0.25 in th 0.3 in th 3 in th		1.46 cd 1.25 cd 0.87 cd 0.87 cd 0.3 cd 1.25 cd 1.25 cd 1.50 cd 1.50 cd 21 cd 21 cd 21 cd 13 cd 14 cd 15 cd 16 cd 16 cd 16 cd 16 cd 16 cd 16 cd 17 cd 17 cd 18 cd 1
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Sludge Tank #0275 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Roof Dimensions	ion (2 days) (building metal exte North South East West Interior North South	10 ft x 7 ft x 7 ft x 12 ft x 15 ft x 16 ft x 17 ft x 18 ft x 19 ft x 19 ft x 20 ft x 20 ft x 20 ft x	7 ft w x 7 ft w x 6 ft w x 6 ft w x 6 ft w x 6 ft w x 5 ft w x 5 ft w x 6 ft w x 6 ft w x 25 ft ht x 22 ft ht x 22 ft ht x 22 ft ht x 22 ft ht x 4 ft ht x 6 ft ht x 6 ft ht x 6 ft ht x	0.25 in th 0.3 in th 3 in th		1.46 ct 1.25 ct 1.25 ct 0.87 ct 0.87 ct 0.87 ct 0.87 ct 1.25 ct 1.25 ct 1.25 ct 1.25 ct 1.50 c
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Sludge Tank #0275 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Roof Dimensions	ion (2 days) (building metal extended North South East West Interior North South East Albert Interior	10 ft x 7 ft x 7 ft x 12 ft x 15 ft x 16 ft x 17 ft x	7 ft w x 7 ft w x 6 ft w x 6 ft w x 6 ft w x 6 ft w x 7 ft w x 6 ft w x 7 ft w x 8 ft ht x	0.25 in th 0.3 in th 3 in th		1.46 ct 1.25 ct 1.25 ct 0.87 ct 0.87 ct 0.87 ct 0.87 ct 1.25 ct 1.25 ct 1.25 ct 1.25 ct 1.50 c
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Sludge Tank #0275 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Roof Dimensions	ion (2 days) (building metal externation North South East West Interior North South East West Interior	10 ft x 7 ft x 7 ft x 12 ft x 15 ft x 16 ft x 17 ft x 18 ft x 19 ft x 19 ft x 20 ft x 20 ft x 20 ft x	7 ft w x 7 ft w x 6 ft w x 6 ft w x 6 ft w x 6 ft w x 5 ft w x 5 ft w x 6 ft w x 6 ft w x 25 ft ht x 22 ft ht x 22 ft ht x 22 ft ht x 22 ft ht x 4 ft ht x 6 ft ht x 6 ft ht x 6 ft ht x	0.25 in th 0.3 in th 3 in th		1.46 ct 1.25 ct 1.25 ct 0.87 ct 0.87 ct 0.87 ct 0.87 ct 1.25 ct 1.25 ct 1.25 ct 1.25 ct 1.50 c
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Sludge Tank #0275 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Misc equipment decontaminat DEMOLITION Mixed Waste Storage building Wall Dimensions	ion (2 days) (building metal externation North South East West Interior North South East West Interior	10 ft x 7 ft x 7 ft x 12 ft x 15 ft x 160 ft x 17 ft x 18 ft x 19 ft x 19 ft x 10 ft x	7 ft w x 7 ft w x 6 ft w x 6 ft w x 6 ft w x 6 ft w x 7 ft w x 6 ft w x 7 ft w x 8 ft w x 8 ft w x 8 ft w x 8 ft ht x	0.25 in th 0.3 in th 3 in th		1.46 ct 1.25 ct 1.25 ct 0.87 ct 0.87 ct 0.87 ct 0.87 ct 1.25 ct 1.25 ct 1.25 ct 1.50 c
DECONTAMINATION Wash Tank #0080 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Sludge Tank #0275 Top Dimensions Bottom Dimensions Wall Dimensions Wall Dimensions Debris Volume (cy) Misc equipment decontaminat DEMOLITION Mixed Waste Storage building Wall Dimensions Roof Dimensions	ion (2 days) (building metal extered North South East West Interior North South East West Interior	10 ft x 7 ft x 7 ft x 12 ft x 15 ft x 160 ft x 17 ft x 18 ft x 19 ft x 19 ft x 10 ft x	7 ft w x 7 ft w x 6 ft w x 6 ft w x 6 ft w x 6 ft w x 7 ft w x 6 ft w x 7 ft w x 8 ft w x 8 ft w x 8 ft w x 8 ft ht x	0.25 in th 0.3 in th 3 in th		1.46 cd 1.25 cd 1.25 cd 0.87 cd 0.87 cd 0.87 cd 1.25 cd 1.25 cd 1.25 cd 1.50 cd 1.50 cd 1.50 cd 1.50 cd 21 cd 21 cd 21 cd 22 cd 23 cd 24 cd 24 cd 25 cd 277000 cd

						18 cy
oundation (Mixed Waste Sto Stem Wall	orage Building)	_	380 lf x	3 ft ht	=	1140 sf
ooting Dimensions			380 lf x	1 ft w	=	380 sf
Footing			380 If	1 1 11	-	380 sf
		1.6. 3				
ebris Volume Estimate (Mix Floor Dimensions	xed Waste Storage foun	dation) 100 ft I x	60 ft w x	12 in th		222 04
		100 It 1 X			=	223 cy
Stem Wall			1140 sf x	6 in th	=	22 cy
Flooring		400 (1 1	380.0 sf x	2 ft ht	=	29 cy
Floor Area		100 ft I x	60.0 ft w		=	667 sy
Debris Volume						274 cy
ixed Waste Storage Buildin	ng Secondary Containme	ent Vault	34	x15		
Wall Dimensions	long wall	33 ft I x	8 ft ht x	8 in th	=	7 cy
Wall Dimensions	short wall	15 ft I x	8 ft ht x	8 in th	=	3 cy
Debris Area (sf)			176 sf x	2 sides	=	352 sf
Debris Volume (cy)			10 cy x	2 sides	=	20 cy
Cover Dimensions		35 ft I x	17 ft w x	8 in th	=	15 cy
Cover Area		35 ft I x	17 ft w	0	=	595 sf
Floor Dimensions		33 ft x	15 ft w x	10 in th	=	16 cy
Floor Area		33 ft x	15 ft w x	TO III UI	=	55 sy
Debris Volume Total		JJ ILI X	15 IL W		=	55 Sy 51 cy
						,
econdary Containment Vau Footing Dimensions	ult Footings	34x15	60 lt	3 ft w	_	204 -4
•			68 lf x		=	204 sf
Footing Dimensions			30 lf x	3 ft w	=	90 sf
Debris Volume			98 If 294.0 sf x	12 in w	=	11 cy
230110 VOIGITIO			20.10 01 1	"	•	11 Oy
oundation (Outside Wash P	,					
	nd West		120 lf x	6 in ht	=	60 sf
Stem Wall South			30 lf x	6 in ht	=	15 sf
Stem Wall North			30 lf x	6 in ht	=	15 sf
Sum of N and S						30 sf
ebris Volume Estimate (Ou	itside Wash Pad)					
		60 ft I x	30 ft w x	12 in th	=	67 cy
Floor Dimensions						•
Floor Dimensions Floor Area		60 ft I x	30 ft w x		=	200 sy
Floor Area	nd West	60 ft I x	30 ft w x 60.0 ft l x	6 in th	=	200 sy 2 cy
Floor Area Stem Wall East and Stem Wall	nd West	60 ft I x		6 in th 12 in th		2 cy 2 cy
Floor Area Stem Wall East a	nd West	60 ft I x	60.0 ft I x		=	2 cy
Floor Area Stem Wall Stem Wall Debris Volume		_	60.0 ft I x		=	2 cy 2 cy
Floor Area Stem Wall East and Stem Wall	ions of ht are halved to a	account for ramp)	60.0 ft I x 30.0 sf x	12 in th	=	2 cy 2 cy 71 cy
Floor Area Stem Wall East an Stem Wall Debris Volume utside Dock Walls (dimensions	ions of ht are halved to a	account for ramp) 67 ft I x	60.0 ft l x 30.0 sf x	12 in th	= =	2 cy 2 cy 71 cy 2 cy
Floor Area Stem Wall East an Stem Wall Debris Volume utside Dock Walls (dimensi Wall Dimensions Wall Dimensions	ions of ht are halved to a N Ramp wall S Ramp wall	account for ramp) 67 ft I x 67 ft I x	60.0 ft l x 30.0 sf x	12 in th 8 in th 8 in th	= = = =	2 cy 2 cy 71 cy 2 cy 2 cy 2 cy
Floor Area Stem Wall East au Stem Wall Debris Volume rutside Dock Walls (dimensi Wall Dimensions Wall Dimensions Wall Dimensions	ions of ht are halved to a	account for ramp) 67 ft I x	60.0 ft l x 30.0 sf x	12 in th	= =	2 cy 2 cy 71 cy 2 cy 2 cy 2 cy 3 cy
Floor Area Stem Wall East au Stem Wall Debris Volume rutside Dock Walls (dimensi Wall Dimensions Wall Dimensions Wall Dimensions Wall Total (sf)	ions of ht are halved to a N Ramp wall S Ramp wall	account for ramp) 67 ft I x 67 ft I x	60.0 ft l x 30.0 sf x	12 in th 8 in th 8 in th	= = = =	2 cy 2 cy 71 cy 2 cy 2 cy 2 cy 3 cy 238 sf
Floor Area Stem Wall East an Stem Wall Debris Volume utside Dock Walls (dimensi Wall Dimensions Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy)	ions of ht are halved to a N Ramp wall S Ramp wall	account for ramp) 67 ft x 67 ft x 26 ft x	2 ft ht x 2 ft ht x 4 ft ht x	12 in th 8 in th 8 in th 8 in th	= = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 238 sf 7 cy
Floor Area Stem Wall East an Stem Wall Debris Volume utside Dock Walls (dimensi Wall Dimensions Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions	ions of ht are halved to a N Ramp wall S Ramp wall	account for ramp) 67 ft x 67 ft x 26 ft x	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x	12 in th 8 in th 8 in th	= = = = = = = = = = = = = = = = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 238 sf 7 cy 44 cy
Floor Area Stem Wall East and Stem Wall Debris Volume utside Dock Walls (dimensions) Wall Dimensions Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions Floor Area	ions of ht are halved to a N Ramp wall S Ramp wall	account for ramp) 67 ft x 67 ft x 26 ft x	2 ft ht x 2 ft ht x 4 ft ht x	12 in th 8 in th 8 in th 8 in th	= = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 238 sf 7 cy 44 cy 1742 sf
Floor Area Stem Wall East an Stem Wall Debris Volume utside Dock Walls (dimensi Wall Dimensions Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions	ions of ht are halved to a N Ramp wall S Ramp wall	account for ramp) 67 ft x 67 ft x 26 ft x	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x	12 in th 8 in th 8 in th 8 in th	= = = = = = = = = = = = = = = = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 238 sf 7 cy 44 cy
Floor Area Stem Wall East an Stem Wall Debris Volume utside Dock Walls (dimensi Wall Dimensions Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions Floor Area Debris Volume	ions of ht are halved to a N Ramp wall S Ramp wall	account for ramp) 67 ft x 67 ft x 26 ft x	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x	12 in th 8 in th 8 in th 8 in th	= = = = = = = = = = = = = = = = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 238 sf 7 cy 44 cy 1742 sf
Floor Area Stem Wall East au Stem Wall Debris Volume rutside Dock Walls (dimensi Wall Dimensions Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions Floor Area Debris Volume rutside Dock Footings	ions of ht are halved to a N Ramp wall S Ramp wall	account for ramp) 67 ft x 67 ft x 26 ft x 67 ft x 67 ft x	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x	12 in th 8 in th 8 in th 8 in th	= = = = = = = = = = = = = = = = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 238 sf 7 cy 44 cy 1742 sf 51 cy
Floor Area Stem Wall Stem Wall Debris Volume utside Dock Walls (dimensions Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions Floor Area Debris Volume utside Dock Footings Footing Dimensions	ions of ht are halved to a N Ramp wall S Ramp wall	67 ft x	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x 2 ft w x 2 ft w x	12 in th 8 in th 8 in th 8 in th 8 in th	= = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 238 sf 7 cy 44 cy 1742 sf 51 cy
Floor Area Stem Wall East an Stem Wall Debris Volume utside Dock Walls (dimensions Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions Floor Area Debris Volume utside Dock Footings Footing Dimensions Footing Dimensions	ions of ht are halved to a N Ramp wall S Ramp wall	67 ft x 67 ft x 26 ft x 67 ft x 67 ft x 67 ft x 67 ft x	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x 27 ft w x 28 ft w x	12 in th 8 in th 8 in th 8 in th 12 in th 12 in th	= = = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 3 cy 238 sf 7 cy 44 cy 1742 sf 51 cy 5 cy 5 cy
Floor Area Stem Wall East and Stem Wall Debris Volume Intside Dock Walls (dimension Wall Dimensions Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions Floor Area Debris Volume Intside Dock Footings Footing Dimensions Footing Dimensions Footing Dimensions Footing Dimensions	ions of ht are halved to a N Ramp wall S Ramp wall	67 ft x	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x 2 ft w x 2 ft w x	12 in th 8 in th 8 in th 8 in th 8 in th	= = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 3 cy 238 sf 7 cy 44 cy 1742 sf 51 cy 5 cy 5 cy 2 cy
Floor Area Stem Wall East an Stem Wall Debris Volume utside Dock Walls (dimensions Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions Floor Area Debris Volume utside Dock Footings Footing Dimensions Footing Dimensions	ions of ht are halved to a N Ramp wall S Ramp wall	67 If x	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x 27 ft w x 28 ft w x	12 in th 8 in th 8 in th 8 in th 12 in th 12 in th	= = = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 3 cy 238 sf 7 cy 44 cy 1742 sf 51 cy 5 cy 5 cy
Floor Area Stem Wall East au Stem Wall Debris Volume utside Dock Walls (dimensi Wall Dimensions Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions Floor Area Debris Volume utside Dock Footings Footing Dimensions Footing Dimensions Footing Dimensions Debris Volume Drive Pad (North of Buildii	ions of ht are halved to a N Ramp wall S Ramp wall E wall	67 ft x 67 ft x 67 ft x 26 ft x 67 ft x 67 ft x 67 ft x 67 ft x 67 ft x 160 ff	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x 26 ft w x 26 ft w x 26 ft w x 27 ft w x 28 ft w x 29 ft w x 20 ft w x	12 in th 8 in th 8 in th 8 in th 12 in th 12 in th 12 in th	= = = = = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 238 sf 7 cy 44 cy 1742 sf 51 cy 5 cy 5 cy 2 cy 2 cy 12 cy
Floor Area Stem Wall Stem Wall Debris Volume utside Dock Walls (dimensions) Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions Floor Area Debris Volume utside Dock Footings Footing Dimensions Footing Dimensions Footing Dimensions Debris Volume Drive Pad (North of Building)	ions of ht are halved to a N Ramp wall S Ramp wall E wall	67 ft x 67 ft x 67 ft x 26 ft x 67 ft x 67 ft x 67 ft x 67 ft x 67 if x 26 if x 160 if	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x 26 ft w x 27 ft w x 2 ft w x 2 ft w x 2 ft w x 75 ft w x	12 in th 8 in th 8 in th 8 in th 12 in th 12 in th	= = = = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 238 sf 7 cy 44 cy 1742 sf 51 cy 5 cy 2 cy 12 cy
Floor Area Stem Wall Stem Wall Debris Volume utside Dock Walls (dimensions) Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions Floor Area Debris Volume utside Dock Footings Footing Dimensions Footing Dimensions Footing Dimensions Debris Volume Drive Pad (North of Building) Asphalt Debris Area Total (SY)	ions of ht are halved to a N Ramp wall S Ramp wall E wall	67 ft x 67 ft x 67 ft x 26 ft x 67 ft x 67 ft x 67 ft x 67 ft x 67 ft x 160 ff	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x 26 ft w x 26 ft w x 26 ft w x 27 ft w x 28 ft w x 29 ft w x 20 ft w x	12 in th 8 in th 8 in th 8 in th 12 in th 12 in th 12 in th	= = = = = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 238 sf 7 cy 44 cy 1742 sf 51 cy 5 cy 5 cy 2 cy 12 cy
Floor Area Stem Wall Debris Volume utside Dock Walls (dimensions) Wall Dimensions Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions Floor Area Debris Volume utside Dock Footings Footing Dimensions Footing Dimensions Footing Dimensions Debris Volume Drive Pad (North of Building Asphalt	ions of ht are halved to a N Ramp wall S Ramp wall E wall	67 ft x 67 ft x 67 ft x 26 ft x 67 ft x 67 ft x 67 ft x 67 ft x 67 if x 26 if x 160 if	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x 26 ft w x 27 ft w x 2 ft w x 2 ft w x 2 ft w x 75 ft w x	12 in th 8 in th 8 in th 8 in th 12 in th 12 in th 12 in th	= = = = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 238 sf 7 cy 44 cy 1742 sf 51 cy 5 cy 2 cy 12 cy
Floor Area Stem Wall East an Stem Wall Debris Volume utside Dock Walls (dimensions) Wall Dimensions Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions Floor Area Debris Volume utside Dock Footings Footing Dimensions Footing Dimensions Footing Dimensions Debris Volume Drive Pad (North of Building Asphalt Debris Area Total (SY) Debris Volume Total	ions of ht are halved to a N Ramp wall S Ramp wall E wall	67 ft x 67 ft x 67 ft x 26 ft x 67 ft x 67 ft x 67 ft x 67 ft x 67 if x 26 if x 160 if	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x 26 ft w x 27 ft w x 2 ft w x 2 ft w x 2 ft w x 75 ft w x	12 in th 8 in th 8 in th 8 in th 12 in th 12 in th 12 in th	= = = = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 238 sf 7 cy 44 cy 1742 sf 51 cy 5 cy 2 cy 12 cy 12 cy
Floor Area Stem Wall Stem Wall Debris Volume utside Dock Walls (dimensions) Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions Floor Area Debris Volume utside Dock Footings Footing Dimensions Footing Dimensions Footing Dimensions Debris Volume Drive Pad (North of Building) Asphalt Debris Area Total (SY)	ions of ht are halved to a N Ramp wall S Ramp wall E wall	67 ft x 67 ft x 67 ft x 26 ft x 67 ft x 67 ft x 67 ft x 67 ft x 67 if x 26 if x 160 if	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x 26 ft w x 27 ft w x 2 ft w x 2 ft w x 2 ft w x 75 ft w x	12 in th 8 in th 8 in th 8 in th 12 in th 12 in th 12 in th	= = = = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 3 cy 238 sf 7 cy 44 cy 1742 sf 51 cy 5 cy 2 cy 12 cy 174 cy 2084 sy 174 cy
Floor Area Stem Wall East and Stem Wall Debris Volume utside Dock Walls (dimensions) Wall Dimensions Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions Floor Area Debris Volume utside Dock Footings Footing Dimensions Footing Dimensions Footing Dimensions Debris Volume Drive Pad (North of Building Asphalt Debris Area Total (SY) Debris Volume Total otal Haul Volume Est	ions of ht are halved to a N Ramp wall S Ramp wall E wall	67 ft x 67 ft x 67 ft x 26 ft x 67 ft x 26 ft x 250 ft x	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x 26 ft w x 26 ft w x 27 ft w x 27 ft w x 27 ft w x 30.0 sf x	12 in th 8 in th 8 in th 8 in th 12 in th 12 in th 12 in th	= = = = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 238 sf 7 cy 44 cy 1742 sf 51 cy 5 cy 5 cy 2 cy 12 cy 174 cy 2084 sy 174 cy 819 cy
Floor Area Stem Wall East and Stem Wall Debris Volume utside Dock Walls (dimensions) Wall Dimensions Wall Dimensions Wall Dimensions Wall Total (sf) Wall Total (cy) Floor Dimensions Floor Area Debris Volume utside Dock Footings Footing Dimensions Footing Dimensions Footing Dimensions Debris Volume Drive Pad (North of Building Asphalt Debris Area Total (SY) Debris Volume Est XCAVATION OUTSIDE OF	ions of ht are halved to a N Ramp wall S Ramp wall E wall	67 ft x 67 ft x 67 ft x 26 ft x 67 ft x 67 ft x 67 ft x 67 ft x 67 if x 26 if x 160 if	2 ft ht x 2 ft ht x 4 ft ht x 26 ft w x 26 ft w x 27 ft w x 2 ft w x 2 ft w x 2 ft w x 75 ft w x	12 in th 8 in th 8 in th 8 in th 12 in th 12 in th 12 in th	= = = = = = = =	2 cy 2 cy 71 cy 2 cy 2 cy 3 cy 3 cy 238 sf 7 cy 44 cy 1742 sf 51 cy 5 cy 2 cy 12 cy 174 cy 2084 sy 174 cy

Soil Excavation Drive Pad Base		250 ft I x	75 ft w x	12 in th		695 (
Soil Excavation of Build	dina	100 ft x	60 ft w x	6 in th	=	112 (
Soil Excavation Drive F	•	250 ft x	75 ft w x	6 in th	=	348 (
Soil Excavation of Outs		60 ft l x	30 ft w x	6 in th	=	34 (
Soil Excavation of 2nd		33 ft x	15 ft w x	6 in th	=	10 (
Soil Excavation of Outs		67 ft I x	26 ft w x	6 in th	=	33 0
Total Soil	oldo Book	O, N. A	20 11 11	0		1232 0
Restoration of Grade						
Soil Restoration	. D. ilalia a	100 ft x	60 ft w x	6 in ht	=	112 0
Soil Excavation Storag Soil Excavation Drive F		250 ft x	75 ft w x	6 in th	=	348 0
Soil Excavation Outsid		60 ft x	30 ft w x	6 in th	=	34 0
Secondary Containme		33 ft x	15 ft w x	8 ft ht	=	147 d
Outside dock	iii.	26 ft x	67 ft w x	2 ft ht	=	130 0
Total Grade Restoration Are	a	20 11 1 1	01 K II X	2 11 111		3199 s
Total Backfill Volume						771 c
Total Debris Volume						
Mixed Waste Storage building	ng (building metal ext	erior)				157 c
Mixed Waste Storage building		,				18 0
Debris Volume Estimate (Mi	• • •	oundation)				274 0
Secondary Containment Ste	•	,				51 0
Secondary Containment Foo	,					11 c
Outside Wash Pad	•					71 c
Outside Dock Walls						51 c
Outside Dock Footings						12 0
Drive Pad (North of Building	in restricted area)					174 c
Total Debris Volume						819 (
Soil Excavation						1232 (
Total Volume						2051 0
Total Volume						2001
THERMAL DESORPTION UNI Costs are estimated for triple ri General assumption that debris	nsing of the unit, dec		and demolition.		=	34 (
	nsing of the unit, deco	ontamination, removal, 34 cy	and demolition.		=	34 c
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION	nsing of the unit, decisions volume is		and demolition.		=	34 0
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin	nsing of the unit, decisorolume is BUILDING	34 cy	and demolition.		=	34 0
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Mixed Waste Treatment buildin	nsing of the unit, decisions volume is BUILDING ag g (building metal exte	34 cy				
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Mixed Waste Treatment buildin Wall Dimensions	nsing of the unit, decisions volume is BUILDING ag ag (building metal external of the content	erior)	30 ft ht x	3 in th	=	
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Mixed Waste Treatment buildin Wall Dimensions Wall Dimensions	nsing of the unit, decisions volume is BUILDING ag (building metal extensions) N Long N Short	34 cy erior) 60 ft x 30 ft x	30 ft ht x 30 ft ht x	3 in th	= =	17 c 9 c
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Mixed Waste Treatment buildin Wall Dimensions Wall Dimensions	nsing of the unit, decisions volume is BUILDING ag (building metal extensions) N Long N Short South	34 cy erior) 60 ft I x 30 ft I x 90 ft I x	30 ft ht x 30 ft ht x 30 ft ht x	3 in th 3 in th	= = =	17 c 9 c 25 c
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions	nsing of the unit, decisions of the unit, dec	34 cy erior) 60 ft x 30 ft x 90 ft x 110 ft x	30 ft ht x 30 ft ht x 30 ft ht x 30 ft ht x	3 in th 3 in th 3 in th	= = = =	17 c 9 c 25 c 31 c
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Mixed Waste Treatment buildin Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions Wall Dimensions	nsing of the unit, decisions of the unit, dec	34 cy erior) 60 ft x 30 ft x 90 ft x 110 ft x 90 ft x	30 ft ht x 30 ft ht x 30 ft ht x 30 ft ht x 30 ft ht x	3 in th 3 in th 3 in th 3 in th	= = = =	17 c 9 c 25 c 31 c 25 c
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Mixed Waste Treatment buildin Wall Dimensions	nsing of the unit, decisions of the unit, dec	90 ft x 90 ft x 90 ft x 110 ft x 90 ft x 20 ft x	30 ft ht x 30 ft ht x	3 in th 3 in th 3 in th 3 in th 3 in th	= = = = =	17 c 9 c 25 c 31 c 25 c 6 c
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Wall Dimensions	nsing of the unit, decisions of the unit, dec	34 cy erior) 60 ft x 30 ft x 90 ft x 110 ft x 90 ft x 20 ft x	30 ft ht x 30 ft ht x	3 in th 3 in th 3 in th 3 in th 3 in th 3 in th	= = = = =	17 c 9 c 25 c 31 c 25 c 6 c 2 c
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Wall Dimensions	nsing of the unit, decisions of the unit, decisions of the unit, decisions of the unit, decisions of the unit of the unit, and unit of the unit, and unit of the unit of the unit, and unit of the unit	34 cy erior) 60 ft x 30 ft x 90 ft x 110 ft x 20 ft x 20 ft x 10 ft x	30 ft ht x 8 ft ht x 8 ft ht x	3 in th 3 in th 3 in th 3 in th 3 in th 3 in th 3 in th	= = = = = =	17 c 9 c 25 c 31 c 25 c 6 c 2 c
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Wall Dimensions	nsing of the unit, decisions yolume is BUILDING Ing Ing (building metal external of the context of the contex	34 cy erior) 60 ft x 30 ft x 90 ft x 110 ft x 20 ft x 20 ft x 10 ft x	30 ft ht x 8 ft ht x 8 ft ht x 8 ft ht x	3 in th 3 in th	= = = = = = =	17 c 9 c 25 c 31 c 25 c 6 c 2 c 1 c
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Wall Dimensions	nsing of the unit, decisions of the unit, dec	34 cy erior) 60 ft x 30 ft x 90 ft x 110 ft x 20 ft x 10 ft x 21 ft x	30 ft ht x 8 ft ht x 8 ft ht x 8 ft ht x 11 ft w x	3 in th 3 in th 3 in th 3 in th 3 in th 3 in th 3 in th	= = = = = =	17 c 9 c 25 c 31 c 25 c 6 c 2 c 1 c 1 c
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Mixed Waste Treatment buildin Wall Dimensions Roof Dimensions Roof Dimensions	nsing of the unit, decisions of the unit, decisions of the unit, decisions of the unit, decisions of the unit of the unit, and unit of the unit of the unit, and unit of the u	34 cy erior) 60 ft x 30 ft x 90 ft x 110 ft x 20 ft x 10 ft x 21 ft x 21 ft x 95 ft x	30 ft ht x 8 ft ht x 8 ft ht x 8 ft ht x 11 ft w x 95 ft w x	3 in th	= = = = = = = =	17 c 9 c 25 c 31 c 25 c 6 c 2 c 1 c 3 c 84 c
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Mixed Waste Treatment buildin Wall Dimensions Roof Dimensions Roof Dimensions Roof Dimensions Roof Dimensions	nsing of the unit, decisions of the unit, dec	34 cy erior) 60 ft x 30 ft x 90 ft x 110 ft x 20 ft x 10 ft x 10 ft x 21 ft x 21 ft x 95 ft x	30 ft ht x 8 ft ht x 8 ft ht x 8 ft ht x 11 ft w x 95 ft w x	3 in th	= = = = = = = = =	17 c 9 c 25 c 31 c 25 c 6 c 2 c 1 c 3 c 84 c
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Mixed Waste Treatment buildin Wall Dimensions Roof Dimensions Roof Dimensions Roof Dimensions Roof Dimensions Demolition Volume	nsing of the unit, decisions of the unit, decisions of the unit, decisions of the unit, decisions of the unit of the unit, and unit of the unit of the unit, and unit of the u	34 cy erior) 60 ft x 30 ft x 90 ft x 110 ft x 20 ft x 10 ft x 10 ft x 21 ft x 95 ft x 95 ft x 97 ft x	30 ft ht x 8 ft ht x 8 ft ht x 8 ft ht x 11 ft w x 95 ft w x 22 ft w x	3 in th	= = = = = = = = = = = = = = = = = = = =	17 0 9 0 25 0 31 0 25 0 6 0 2 0 1 0 3 0 84 0 13 0
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Wall Dimensions Roof Dimensions Roof Dimensions Roof Dimensions Demolition Volume Demolition Volume	nsing of the unit, decisions of the unit, decisions of the unit, decisions of the unit, decisions of the unit of the unit, and unit of the unit of the unit, and unit of the u	34 cy erior) 60 ft x 30 ft x 90 ft x 110 ft x 20 ft x 10 ft x 10 ft x 21 ft x 95 ft x 21 ft x 95 ft x 62 ft x 96 ft x	30 ft ht x 8 ft ht x 8 ft ht x 8 ft ht x 11 ft w x 95 ft w x 22 ft w x 90 ft l x	3 in th 5 in th 7 in th 7 in th 8 in th 9 in th	= = = = = = = = = =	17 0 9 0 25 0 31 0 25 0 6 0 2 0 1 0 1 0 3 0 84 0 13 0 243000 0
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Wall Dimensions Demolition Volume Demolition Volume Demolition Volume	nsing of the unit, decisions of the unit, decisions of the unit, decisions of the unit, decisions of the unit of the unit, and unit of the unit of the unit, and unit of the u	34 cy erior) 60 ft x 30 ft x 90 ft x 110 ft x 20 ft x 10 ft x 10 ft x 21 ft x 95 ft x 95 ft x 97 ft x	30 ft ht x 8 ft ht x 8 ft ht x 8 ft ht x 11 ft w x 95 ft w x 22 ft w x	3 in th	= = = = = = = = = = = = = = = = = = = =	17 0 9 0 25 0 31 0 25 0 6 0 2 0 1 0 3 0 84 0 13 0 243000 0 36000 0
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Wall Dimensions Roof Dimensions Roof Dimensions Roof Dimensions Demolition Volume Demolition Volume	nsing of the unit, decisions of the unit, decisions of the unit, decisions of the unit, decisions of the unit of the unit, and unit of the unit of the unit, and unit of the u	34 cy erior) 60 ft x 30 ft x 90 ft x 110 ft x 20 ft x 10 ft x 10 ft x 21 ft x 95 ft x 21 ft x 95 ft x 62 ft x 96 ft x	30 ft ht x 8 ft ht x 8 ft ht x 8 ft ht x 11 ft w x 95 ft w x 22 ft w x 90 ft l x	3 in th 5 in th 7 in th 7 in th 8 in th 9 in th	= = = = = = = = = =	17 0 9 0 25 0 31 0 25 0 6 0 2 0 1 0 3 0 84 0 13 0 243000 0 36000 0 1600 0 280600 0
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Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Wall Dimensions Roof Dimensions Roof Dimensions Roof Dimensions Demolition Volume Demolition Volume Demolition Volume Demolition Volume Total Debris Volume (cy) Foundation (Mixed Waste Trea Stem Wall (Main Building) Stem Wall (Equipment Roon Stem Wall Total Area Footing Dimensions (Exterior N	nsing of the unit, decisions yolume is BUILDING Ing Ing (building metal external N Long Ing N Short South East W Long W Short View W View N View S View Long Short strment Building) In) I,S)	34 cy erior) 60 ft x 30 ft x 90 ft x 110 ft x 20 ft x 10 ft x 10 ft x 21 ft x 95 ft x 21 ft x 22 ft x 25 ft x 26 ft x 27 ft x 38 am x	30 ft ht x 8 ft ht x 8 ft ht x 11 ft w x 95 ft w x 22 ft w x 90 ft I x 10 ft I x 10 ft I x	3 in th 5 in th 7 in th 8 in th 8 ft ht 8 ft ht 8 ft w	= = = = = = = = = = = = = = = = = = =	17 0 9 0 25 0 31 0 25 0 6 0 2 0 1 0 1 0 3 0 84 0 243000 0 36000 0 1600 0 280600 0 217 0
Costs are estimated for triple ri General assumption that debris MIXED WASTE TREATMENT DEMOLITION Mixed Waste Treatment buildin Wall Dimensions Demolition Solume Demolition Volume Total Debris Volume (cy) Foundation (Mixed Waste Trea Stem Wall (Main Building) Stem wall (Equipment Roon Stem Wall Total Area Footing Dimensions (Exterior Neoting Dimensions (Exterior E	nsing of the unit, decisions of the unit, decisions volume is BUILDING Ing Ing (building metal external National Natio	34 cy Perior) 60 ft x 30 ft x 90 ft x 110 ft x 20 ft x 20 ft x 10 ft x 20 ft x 21 ft x 95 ft x 62 ft x 20 ft x 30 ft x 41 ft x 42 ft x 43 ft x 44 ft x 45 ft x 46 ft x 46 ft x 47 ft x 48 ft x 49 ft x 40 ft x 40 ft x 40 ft x 41 ft x	30 ft ht x 8 ft ht x 8 ft ht x 11 ft w x 95 ft w x 22 ft w x 90 ft x 10 ft x 100 ft x 7 ft x	3 in th 4 in th 5 in th 7 in th 8 in th 8 ft ht 8 ft ht 8 ft w 7 ft w		17 0 9 0 25 0 31 0 25 0 6 0 2 0 1 0 3 0 84 0 13 0 243000 0 36000 0 280600 0 217 0 280600 0 217 0
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Area Floor View Area Area	60 ft x 20 ft x 20 ft x	20 ft v 10 ft v	w x	6 in	th	= = =	1200 sf 4 cy
Stem Wall	20 It 1 X	3280 sf	w x	12 in	th	=	23 sy 122 cy
Footing		138 sf	х	2 ft		=	11 cy
Debris Volume							2590 cy
Misc Walkways Assume a standard for all machines							3 cy
							3 3,
Outside slab footings							
Footing Dimensions (Two Rollup Door) Footing Dimensions (Receiving Vault)		54 If 40 If	Х	8 in		=	36 sf
Footing Dimensions (Receiving Vault)		40 11	Х	8 in	W	=	27 sf 63 sf
Misc Footings Volume		62.7 sf	х	10.0 in	th	=	2 cy
Footing Dimensions (W. Sidewalk) Footing Dimensions (N. Sidewalk)		22 ft 21 ft	X	6 in 6 in		=	11 sf 11 sf
Footing Dimensions (R. Sidewalk)		11 ft	X	6 in		=	6 sf
Footing Dimensions (NE Sidewalk)		19 ft	x	6 in		=	10 sf
· · · · · · · · · · · · · · · · · · ·							37 sf
Misc Footings Volume		37.0 sf	х	6.0 in	th	=	1 cy
Total valume of autoide clab factings		1.9 cy	+	0.7 cy		_	3 04
Total volume of outside slab footings		1.9 Cy	+	0.7 Cy		=	3 cy
Misc Slab of Concrete							
Slab Dimensions (Two Rollup Door)	34 ft I	10 ft		10 in	th	=	11 cy
Area	34 ft I x	10 ft				=	38 sy
Slab Dimensions (Receiving Vault)	20 ft I	10 ft		10 in	th	=	7 cy
Area Slab Dimensions (W. Sidewalk)	20 ft I x 14 ft I	10 ft v		6 in	th	=	23 sy 2 cy
Area	14 ft x	4 ft		U III	uı	=	7 sy
Slab Dimensions (N. Sidewalk)	7.33 ft I	7 ft		6 in	th	=	1 cy
Area	7.33 ft I x	7 ft v	w			=	6 sy
Slab Dimensions (E. Sidewalk)	5 ft I	3.33 ft		6 in	th	=	1 cy
Area	5 ft x	3.33 ft		0 :	dl-	=	2 sy
Slab Dimensions (NE Sidewalk) Area	9 ft I 9 ft I x	5 ft v		6 in	tn	=	1 cy 5 sy
Slab Dimensions (Baghouse)	28 ft I	16 ft		24 in	th	=	34 cy
Area	28 ft I x					=	50 sy
Outside slab footings							3 cy
Ramp Dimensions	32 ft I x			10 in	th	=	29 cy
Area Misc concrete volume	32 ft x	29 ft	w			=	104 sy 89 cy
Misc concrete area							235 sy
Interior Concrete (Tank walls and footings - see s	sections VIb-VIf for cal	culations)					200 0)
Waste Receiving Tank #1							41 cy
Tank #2 & #3							36 cy
Tank #4 & #5 and Wash Tank #6							55 cy
Interior concrete volume							132 cy
Summary of Debris Total							
Building Volume							217 cy
Floor and Footing Volume (building)							2590 cy
Misc Volume							89 cy
Interior Concrete							132 cy
Grizzly Steel							36 cy
Primary and Tertiary Shredder Steel Mixer Tank #8							4 cy 2 cy
Dust Collection System							16 cy
Debris Total							3086 cy
EXCAVATION OF MIXED WASTE TREATMEN							
Soil Main Area	90 ft l x		_	6 in		=	150 cy
Soil Equipment Room	60 ft l x		_	6 in		=	23 cy
Soil View Room Soil Volume	20 ft l x	10 ft	w x	6 in	tn	=	4 cy 176 cy
Joil Volume							170 Cy
Exterior Soil Excavation							
Soil Excavation Two Rollup Door	34 ft I	10 ft		6 in		=	7 cy
Soil Excavation (Receiving Vault)	20 ft I	10 ft		6 in		=	4 cy
Soil Excavation (W. Sidewalk) Soil Excavation (N. Sidewalk)	14 ft 7.33 ft	4 ft v	_	6 in 6 in		=	2 cy 1 cy
Soil Excavation (N. Sidewalk)	7.33 It 1 5 ft 1	3.33 ft	_	6 in		=	1 cy
Son Endaration (E. Gladifally)	J It I	J.55 It	^	0 111			1 Gy

Soil Excavation (NE Sidewalk) Soil Excavation Bag House	9 ft I 28 ft I	5 ft w x 16 ft w x	6 in th 6 in th	=	1 cy 9 cy
Soil Totals					1185 sy 22 cy
Total Soil					198 cy
Restoration of Grade (soil excavation volume)					198 cy
WASTE RECEIVING TANK #1 EMOLITION					
Waste Receiver Tank #1 (fig. 9317-c5,c8)					
Walls	14 ft x	5 ft ht x	1 ft th	=	3 cy
Walls	15 ft I x	8 ft ht x	1 ft th	=	5 cy
Debris Volume					8 cy
Area	14 ft I x 15 ft I x	5 ft ht 8 ft ht		=	8 sy 14 sy
Foundation (Waste Receiver Tank #1)					
Footing Dimensions (south footing)		20 ft I x	13 ft w	=	260 sf
Footing Dimensions		28 ft I x	3 ft w	=	84 sf
Footing Dimensions		28 ft I x	3 ft w	=	84 sf
Footing		84 sf +	84 sf	=	168 sf
Area		168 sf +	260 sf	=	48 sy
Total Area	8 sy +	14 sy +	48 sy	=	70 sy
Debris Volume Estimate	_				
Footings		168.00 sf x	2 ft th	=	13 cy
Footing Dimensions (south footing)		260.0 sf x	2 ft th	=	20 cy
Walls					8 cy
Total Debris					41 cy
LIQUID WASTE STORAGE TANKS (Foundation	on and Future Construc	tion)			
EMOLITION Concrete					
Leveling Pad	14 ft x	10 ft w x	0.667 ft th	=	4 cy
Tank Pad (26'L x 12'w overall), which					
	14 ft x	10 ft w x	0.667 ft th	=	4 cy
	26 ft I x	12 ft w x	0.75 ft th	=	9 cy
Debris Total	12 ft I x	12 ft w x	0.5 ft th	=	3 cy 20 cy
Area	14 ft I x	10 ft w		=	16 sy
	14 ft I x	10 ft w		=	16 sy
	26 ft I x	12 ft w		=	35 sy
	12 ft x	12 ft w		=	16 sy 83 sy
Sump Pump Vault					
Walls	5 ft I x	5 ft ht x	1 ft th	=	1 cy
Walls	6 ft I x	5 ft ht x	1 ft th	=	1.1 cy
Walls	5 ft l x	5 ft ht x	1 ft th	=	0.9 cy
Debris Total					4 cy
Area					9 sy
Foundation Footing Dimensions (south footing)	_	23 ft x	2 ft w	_	46 sf
Footing Dimensions (south footing) Footing Dimensions		3 ft x	2 ft w	=	46 SI 6 Sf
Footing Dimensions		11 ft x	2 ft w	=	22 sf
Footing Dimensions		11 ft X	2 ft w	=	22 sf
Footing Dimensions		11 ft x	5 ft w	=	55 sf
. coming Emissions		11 11 11 11	0 IX II		151 sf
Debris Volume Estimate					17 sy
Concrete Tanks		1510 (0.61		20 cy
Footing Dimensions		151.0 sf x	2 ft th	=	12 cy
Sump Walls Total Debris					4 cy 36 cy
Total Area					36 cy 109 sy
Total Debris					36 cy
PRIMARY & TERTIARY SHREDDERS, SIZING	SCREEN TANK #4, AND	TANK #5 & #6			
					0.0.
ECONTAMINATION Triple Rinse					7 119
Triple Rinse					
					2 Da 4 Da

Walls (North) Walls (from East to West)		43 ft I	х	9 ft 1		1 ft	414		
,				9 11 1	IL X	1 11	tri	=	15 cy
Wall 1		13 ft I	X	9 ft 1	nt x	1 ft	th	=	5 cy
Wall 2		13 ft I	х	9 ft 1	nt x	1 ft	th	=	5 cy
Wall 3		13 ft I	х	9 ft I	nt x	1 ft	th	=	5 cy
Wall 4		13 ft I	х	9 ft 1	nt x	1 ft	th	=	5 cy
Debris Total									32 cy
Area									52 sy
Foundation (Sizing Tank #4, #5, #6	()								02 0)
Footing Dimensions (North footi				43 ft I	х	2 ft	14/	=	86 sf
From East to West	119)			45 11 1	^	2 11	VV	-	00 31
				40 # 1		3 ft			204
Footing Dimension #1				12 ft				=	36 sf
Footing Dimension #2				12 ft		5 ft		=	60 sf
Footing Dimension #3				12 ft		5 ft		=	60 sf
Footing Dimension #4				12 ft	Х	5 ft	W	=	60 sf
Debris Total									302 sf
Area									24 sy
Debris Volume Estimate									
Footing Dimensions				302.0 sf	х	2 ft	th	=	23 cy
Walls									32 cy
Total Debris									55 cy
Total Area									76 sy
									ro sy
Tertiary Shredder				•		10 1			i e
Tube Lengths				2 pc	Х	10 ft		=	1 cy
Tube Lengths				2 pc	Х	6 ft		=	1 cy
Tube Lengths				2 pc	х	5.5 ft		=	1 cy
Tube Lengths				2 pc	х	5 ft	1	=	1 cy
Tube Lengths				2 pc	х	4.5 ft	1	=	1 cy
Tube Lengths				8 pc	х	2.5 ft	1	=	1 cy
Total Debris									4 cy
Mixer Tank #8 Walls (East) Walls (from North to South) Wall 1 Wall 2 Wall 3 Wall 4 Wall 5 Floor		44 ft 10 ft 9 ft 7 ft 25 ft 14 ft 44 ft	x x x x x x x x x	6 in 1 1 ft 1 1 ft 1 1 ft 1 1 ft 1 1 ft 1	nt x nt x nt x nt x	0.5 in 0.5 in 0.5 in 0.5 in 0.5 in 0.5 in	th th th th	= = = = = =	0.41 cy 0.02 cy 0.01 cy 0.01 cy 0.04 cy 0.02 cy 1.43 cy
Debris Total									2 cy
Torch Cutting to Max dimension	of 8ft								
				46 ft I	\	8 ft		=	5 cuts
				16 ft I	١	8 ft	sq	=	1 cuts
			Total						6 cuts
	5 Cuts	@		16 ft		80 If			
	1 Cut	@		46 ft I	=	46 If	_		
	Total torch cutting ler	ngth	_			126 If			
DUCT COLL FOTION OVOTES									
DUST COLLECTION SYSTEM EMOLITION									
	inal and augulemental	oabo::==	c)						6 da
emoval of machinery (for both the orig				ootic= \//-					6 days
OTE: Slab is accounted for in bag hou	-	atment E	sullaing S	ection VIa					
Fans and Motors for Dust Collectio	n								_
Fans		9 ft I		5 ft 1		4 ft		=	7 cy
Motor		2 ft I	Х	2 ft l	nt x	2 ft	th	=	1 cy
Total Debris									8 cy
									•
ippiementai bagnouse (2002)		house							24 cy
	the smaller primary ban	riouse							
ipplemental baghouse (2002) Assume debris volume three times otal debris volume for dust collection s		nouse							32 cy

DEMOLITION OF CONTAMINATED AREA

NOTE: All foundation and first floor concrete with building supports are considered in the contaminated area.

Operations Building (Exterior)

Mixed Waste Operation building (building metal exterior)

30 ft I x 27 ft ht x 3 in th Wall Dimensions 8 cy

Wall Dimensions	East Short	20 ft I	x	27 ft	ht	x	3 in	th	=	5 cy
Wall Dimensions	East Long	145 ft I	х	25 ft			3 in		=	34 cy
	•		_							•
Wall Dimensions	NW	88 ft I	_	27 ft			3 in		=	22 cy
Wall Dimensions	South	88 ft I	_	27 ft			3 in		=	22 cy
Wall Dimensions	West	175 ft I	_	25 ft	ht	Х	3 in		=	41 cy
Roof Dimensions	Long	180 ft I	х	95 ft	W	Х	3 in	th	=	159 cy
Roof Dimensions	Short	60 ft I	х	30 ft	w	х	3 in	th	=	17 cy
Demolition Volume		175 ft I	_	88 ft		_	27 ft	ht	=	415800 cf
			_							
Demolition Volume		145 ft I	X	30 ft	W	Х	25 ft	nt	=	108750 cf
Demolition Volume Total										524550 cf
Building Debris Subtotal										306 cy
9										•
Interior Walls										
		00 0 4 1		25 ft	h.4		6 in	414		40
Fire Wall Process area		90.0 ft I	_						=	42 cy
Fire Wall Office area		145.0 ft I	Х	25 ft	ht		6 in	th	=	68 cy
Office area		756.0 lf I	х	10 ft	ht		6 in	th	=	140 cy
Building Debris Subtotal (Interior	Walls)									250 cy
3 (,									,
Foundation (Operations Building)										
· · · · · · · · · · · · · · · · · · ·		50461		0.4	1. 4					1168 sf
Stem Wall		584 ft I	_	2 ft					=	
		584 ft I	Х	2 ft	ht		6 in	W	=	22 cy
Footing Dimensions		16 am	х	10 ft	1	х	8 ft	w	=	80 sf
Footing Dimensions		14 am		6 ft		х	6 ft		=	36 sf
9		12 am	_							
Footing Dimensions			_	4 ft		Х	3 ft	W	=	12 sf
Footing		80.0 sf	+	36.0 sf		+	12.0 sf		=	128 sf
Footings Subtotal			- 1	128.0 sf		Х	2.0 ft	th	=	10 cy
Door Footing Dimensions										
Footing Dimensions One Man Do	or	18 am		3.5 ft	1	х	6 in	۱۸/	=	32 sf
9			- 1				-			
Footing Dimensions One Man Do		8 am	- 1	4 ft		Х	6 in		=	16 sf
Footing Dimensions Two Man Do		2 am	- 1	3.5 ft		Х	6 in		=	4 sf
Footing Dimensions Two Man Do	or	1 am		7.33 ft	-	Х	7 ft	W	=	52 sf
										104 sf
Footings Subtotal				104.0 sf		х	10.0 in	th	=	4 cy
										,
Footing Dimensions Roll Up Door		12 am		9 ft		v	12 in			108 sf
			- 1			Х			=	
Footing Dimensions Roll Up Door	•	6 am		14 ft	ı	Х	12 in	W	=	84 sf
Footing										192 sf
Footings Subtotal				192.0 sf		Х	3.0 in	th	=	2 cy
Footing Debris Volume										15 cy
rooting Debris volume										10 0
0 1 0 1 1										
Secondary Containment										
Bracing		150 lf	Х	3 ft			1 ft		=	17 cy
Bracing		30 lf	Х	3 ft	ht		1 ft	th	=	4 cy
Concrete (Drainage Trench)		129 If	х	3 ft	W	х	1 ft	th	=	15 cy
Subtotal Debris										35 cy
										55 5,
Cocond Floor Dimonoiona		06.0.4.1	. I	20.0 ft		v	8.0 in	4h		F ov
Second Floor Dimensions		96.0 ft I		29.0 ft					=	5 cy
First Floor Dimensions		175.0 ft I		90.0 ft			12.0 in		=	584 cy
First Floor Dimensions(Office lab are	ea)	148.0 ft I	Х	30.0 ft	W	Х	8.0 in	th	=	110 cy
Floor Subtotal										699 cy
Floor Subtotal										699 cy
										699 cy
Door Floor Dimensions				16 ft	١٨/	v	24 in	th	_	ŕ
Door Floor Dimensions Slab Dimensions (Baghouse)		28 ft		16 ft			24 in		=	34 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door		28 ft 14 ft		9 ft	W	х	10 in	w	=	34 cy 4 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door	∂ am	28 ft 14 ft 4 ft		9 ft 3.5 ft	W W	x x	10 in 3 in	w th		34 cy 4 cy 14 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door	∂ am	28 ft 14 ft		9 ft	W W	x x	10 in	w th	=	34 cy 4 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door	am	28 ft 14 ft 4 ft		9 ft 3.5 ft	W W	x x	10 in 3 in	w th	= =	34 cy 4 cy 14 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal) am	28 ft 14 ft 4 ft		9 ft 3.5 ft	W W	x x	10 in 3 in	w th	= =	34 cy 4 cy 14 cy 1 cy 53 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door	am	28 ft 14 ft 4 ft		9 ft 3.5 ft	W W	x x	10 in 3 in	w th	= =	34 cy 4 cy 14 cy 1 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal Floor Total) am	28 ft 14 ft 4 ft		9 ft 3.5 ft	W W	x x	10 in 3 in	w th	= =	34 cy 4 cy 14 cy 1 cy 53 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal Floor Total Total Demolition Debris) am	28 ft 14 ft 4 ft		9 ft 3.5 ft	W W	x x	10 in 3 in	w th	= =	34 cy 4 cy 14 cy 1 cy 53 cy 752 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal Floor Total Total Demolition Debris Operations Building	am	28 ft 14 ft 4 ft		9 ft 3.5 ft	W W	x x	10 in 3 in	w th	= =	34 cy 4 cy 14 cy 1 cy 53 cy 752 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal Floor Total Total Demolition Debris Operations Building Interior Walls) am	28 ft 14 ft 4 ft		9 ft 3.5 ft	W W	x x	10 in 3 in	w th	= =	34 cy 4 cy 14 cy 1 cy 53 cy 752 cy 306 cy 250 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal Floor Total Total Demolition Debris Operations Building) am	28 ft 14 ft 4 ft		9 ft 3.5 ft	W W	x x	10 in 3 in	w th	= =	34 cy 4 cy 14 cy 1 cy 53 cy 752 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal Floor Total Total Demolition Debris Operations Building Interior Walls	_	28 ft 14 ft 4 ft		9 ft 3.5 ft	W W	x x	10 in 3 in	w th	= =	34 cy 4 cy 14 cy 1 cy 53 cy 752 cy 306 cy 250 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal Floor Total Total Demolition Debris Operations Building Interior Walls Footing Total Secondary Containment Footing S	_	28 ft 14 ft 4 ft		9 ft 3.5 ft	W W	x x	10 in 3 in	w th	= =	34 cy 4 cy 14 cy 1 cy 53 cy 752 cy 306 cy 250 cy 15 cy 35 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal Floor Total Total Demolition Debris Operations Building Interior Walls Footing Total Secondary Containment Footing Secondary Containment Footing	_	28 ft I 14 ft I 4 ft I 8 ft I		9 ft 3.5 ft 3.5 ft	w w I	x x x	10 in 3 in 3 in	w th th	= = =	34 cy 4 cy 14 cy 1 cy 53 cy 752 cy 306 cy 250 cy 15 cy 35 cy 752 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal Floor Total Total Demolition Debris Operations Building Interior Walls Footing Total Secondary Containment Footing Floor Dimensions HDPE Liner	_	28 ft 14 ft 4 ft	x	9 ft 3.5 ft	w w I	x x x	10 in 3 in	w th th	= =	34 cy 4 cy 14 cy 1 cy 53 cy 752 cy 306 cy 250 cy 15 cy 35 cy 752 cy 12 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal Floor Total Total Demolition Debris Operations Building Interior Walls Footing Total Secondary Containment Footing Secondary Containment Footing	_	28 ft I 14 ft I 4 ft I 8 ft I	x	9 ft 3.5 ft 3.5 ft	w w I	x x x	10 in 3 in 3 in	w th th	= = =	34 cy 4 cy 14 cy 1 cy 53 cy 752 cy 306 cy 250 cy 15 cy 35 cy 752 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal Floor Total Total Demolition Debris Operations Building Interior Walls Footing Total Secondary Containment Footing Floor Dimensions HDPE Liner	_	28 ft I 14 ft I 4 ft I 8 ft I	x	9 ft 3.5 ft 3.5 ft	w w I	x x x	10 in 3 in 3 in	w th th	= = =	34 cy 4 cy 14 cy 1 cy 53 cy 752 cy 306 cy 250 cy 15 cy 35 cy 752 cy 12 cy 1 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal Floor Total Total Demolition Debris Operations Building Interior Walls Footing Total Secondary Containment Footing Floor Dimensions HDPE Liner Drum Mixer Macro Extruder	_	28 ft I 14 ft I 4 ft I 8 ft I	x	9 ft 3.5 ft 3.5 ft	w w I	x x x	10 in 3 in 3 in	w th th	= = =	34 cy 4 cy 14 cy 1 cy 53 cy 752 cy 306 cy 250 cy 15 cy 35 cy 752 cy 12 cy 1 cy 6 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal Floor Total Total Demolition Debris Operations Building Interior Walls Footing Total Secondary Containment Footing 5 Floor Dimensions HDPE Liner Drum Mixer Macro Extruder Drum Compactor	_	28 ft I 14 ft I 4 ft I 8 ft I	x	9 ft 3.5 ft 3.5 ft	w w I	x x x	10 in 3 in 3 in	w th th	= = =	34 cy 4 cy 14 cy 1 cy 53 cy 752 cy 306 cy 250 cy 15 cy 35 cy 752 cy 1 cy 6 cy 2 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal Floor Total Total Demolition Debris Operations Building Interior Walls Footing Total Secondary Containment Footing Floor Dimensions HDPE Liner Drum Mixer Macro Extruder	_	28 ft I 14 ft I 4 ft I 8 ft I	x I	9 ft 3.5 ft 3.5 ft	w w I	x x x	10 in 3 in 3 in	w th th	= = =	34 cy 4 cy 14 cy 1 cy 53 cy 752 cy 306 cy 250 cy 15 cy 35 cy 752 cy 12 cy 1 cy 6 cy
Door Floor Dimensions Slab Dimensions (Baghouse) Roll Up Door One Man Door Two Man Door Floors Subtotal Floor Total Total Demolition Debris Operations Building Interior Walls Footing Total Secondary Containment Footing 5 Floor Dimensions HDPE Liner Drum Mixer Macro Extruder Drum Compactor	_	28 ft I 14 ft I 4 ft I 8 ft I	x	9 ft 3.5 ft 3.5 ft	w w I	x x x	10 in 3 in 3 in	w th th	= = =	34 cy 4 cy 14 cy 1 cy 53 cy 752 cy 306 cy 250 cy 15 cy 35 cy 752 cy 1 cy 6 cy 2 cy

	Dust collection Building Volume Debris Total					10 cy 1398 cy
ΕX	CAVATION OF SECONDARY CONTAINMENT PR	ROCESS AREA				
	Pea Gravel Main Area	145 ft x	90 ft w x	ft th	=	484 cy
	Soil Excavation Main Area	175 ft x		in th	=	292 cy
	Area	175 ft x	90 ft w		=	1750 sy
	Soil Excavation East Area	148 ft I x		in th	=	83 cy
	Area	148 ft I x	30 ft w		=	494 sy
	Total Contaminated Soil					375 cy
	Backfill volume = sum of pea gravel and soil e	cavation volumes				859 cy
	Restoration of Grade (soil excavation area only				=	2244 sy
	Total Excavation Debris					
	Total Pea Gravel					484 cy
	Total Contaminated Soil					375 cy
EX	CAVATION OUTSIDE OF RESTRICTED AREA					
	Parking lot					
	Asphalt	150 ft I x	15 ft w	Ne. a.		250 sy
	Asphalt Haul volume	150 ft I x	15 ft w x	3 in th	=	21 cy 21 cy
	naui voiume					21 Cy
b	DRUM MIXER #1 CONTAMINATION					
υE	Assume one day decontamination					
То	tal Estimated Debris Volume					1 cy
С	MACRO EXTRUDER DECONTAMINATION					
	Assume 1 day					
	Volume of Debris	10 ft I x	3 ft w x	ft ht	=	6 cy
d	DRUM COMPACTOR					
	Debris (estimated)					2 cy
le	[Reserved]					
lf	MIODOSNO ADOLU ATION EXTRUDED	IOUED				
	MICROENCAPSULATION EXTRUDER and CRU CONTAMINATION	JOHEK				
	Microencapsulation extruder					
	Assume three day decontamination					
De						
De	Assume three day decontamination bris Volumes Extruder	10 ft l x	3 ft w x	ift ht	=	6 cy
De	Assume three day decontamination bris Volumes Extruder Crusher (Estimated)	10 ft I x	3 ft w x	5 ft ht	=	1 cy
De	Assume three day decontamination bris Volumes Extruder	10 ft I x	3 ft w x	5 ft ht	=	•
lg	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER	10 ft I x	3 ft w x	ift ht	=	1 cy
lg	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION	10 ft I x	3 ft w x	5 ft ht	=	1 cy
lg DE	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days	10 ft I x	3 ft w x	ift ht	=	1 cy 7 cy
lg DE	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION	10 ft I x	3 ft w x	oft ht	=	1 cy
g DE	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated) [RESERVED]	10 ft x	3 ft w x	ft ht	=	1 cy 7 cy
g DE	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated)	10 ft I x	3 ft w x	ift ht	=	1 cy 7 cy
lg De De Ih	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated) [RESERVED] Box hopper and elevator have been removed. DUST COLLECTION SYSTEM	10 ft x	3 ft w x	ift ht	=	1 cy 7 cy
g De De	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated) [RESERVED] Box hopper and elevator have been removed. DUST COLLECTION SYSTEM		3 ft w x	oft ht	=	1 cy 7 cy
g De De	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated) [RESERVED] Box hopper and elevator have been removed. DUST COLLECTION SYSTEM MOLITION DTE: Slab is accounted for in bag house footings		3 ft w x	oft ht	=	1 cy 7 cy
g De De	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated) [RESERVED] Box hopper and elevator have been removed. DUST COLLECTION SYSTEM MOLITION DTE: Slab is accounted for in bag house footings Fans and Motors for Dust Collection	s in Section VIIa				1 cy 7 cy 2 cy
g De De	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated) [RESERVED] Box hopper and elevator have been removed. DUST COLLECTION SYSTEM MOLITION DTE: Slab is accounted for in bag house footings Fans and Motors for Dust Collection Fans	s in Section VIIa	5 ft ht x	I ft th	=	1 cy 7 cy 2 cy 7 cy
g De De	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated) [RESERVED] Box hopper and elevator have been removed. DUST COLLECTION SYSTEM MOLITION DTE: Slab is accounted for in bag house footings Fans and Motors for Dust Collection	s in Section VIIa	5 ft ht x		=	1 cy 7 cy 2 cy
De D	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated) [RESERVED] Box hopper and elevator have been removed. DUST COLLECTION SYSTEM MOLITION DTE: Slab is accounted for in bag house footings Fans and Motors for Dust Collection Fans Motor	s in Section VIIa	5 ft ht x	I ft th	=	1 cy 7 cy 2 cy 7 cy 1 cy
De De lh	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated) [RESERVED] Box hopper and elevator have been removed. DUST COLLECTION SYSTEM MOLITION DTE: Slab is accounted for in bag house footings Fans and Motors for Dust Collection Fans Motor	s in Section VIIa	5 ft ht x	I ft th	=	1 cy 7 cy 2 cy 7 cy 1 cy
g De De h	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated) [RESERVED] Box hopper and elevator have been removed. DUST COLLECTION SYSTEM MOLITION ITE: Slab is accounted for in bag house footings Fans and Motors for Dust Collection Fans Motor Total Debris	s in Section VIIa	5 ft ht x	I ft th	=	1 cy 7 cy 2 cy 7 cy 1 cy 8 cy
De De III As	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated) [RESERVED] Box hopper and elevator have been removed. DUST COLLECTION SYSTEM MOLITION DTE: Slab is accounted for in bag house footings Fans and Motors for Dust Collection Fans Motor Total Debris sume Debris Volume Estimated at RAIL CAR UNLOADING FACILITY	s in Section VIIa	5 ft ht x	I ft th	=	1 cy 7 cy 2 cy 7 cy 1 cy 8 cy
De D	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated) [RESERVED] Box hopper and elevator have been removed. DUST COLLECTION SYSTEM MOLITION ITE: Slab is accounted for in bag house footings Fans and Motors for Dust Collection Fans Motor Total Debris sume Debris Volume Estimated at RAIL CAR UNLOADING FACILITY MOLITION Railroad Pad	9 ft x 2 ft x	5 ft ht x 2 ft ht x	I ft th	= =	1 cy 7 cy 2 cy 1 cy 8 cy 10 cy
g De h	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated) [RESERVED] Box hopper and elevator have been removed. DUST COLLECTION SYSTEM MOLITION DTE: Slab is accounted for in bag house footings Fans and Motors for Dust Collection Fans Motor Total Debris sume Debris Volume Estimated at RAIL CAR UNLOADING FACILITY MOLITION Railroad Pad Retaining walls	s in Section VIIa 9 ft x 2 ft x	5 ft ht x 2 ft ht x 2 ft ht x	I ft th 2 ft th	= =	1 cy 7 cy 2 cy 1 cy 8 cy 10 cy
De De III As	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated) [RESERVED] Box hopper and elevator have been removed. DUST COLLECTION SYSTEM MOLITION ITE: Slab is accounted for in bag house footings Fans and Motors for Dust Collection Fans Motor Total Debris sume Debris Volume Estimated at RAIL CAR UNLOADING FACILITY MOLITION Railroad Pad Retaining walls Retaining walls Retaining walls	30 ft x 30 ft x 30 ft x	5 ft ht x 2 ft ht x 4 ft ht x 4 ft ht x	of the state of th	= = =	1 cy 7 cy 2 cy 2 cy 1 cy 8 cy 10 cy 5 cy 5 cy
De D	Assume three day decontamination bris Volumes Extruder Crusher (Estimated) TOTAL volume KINETIC MIXER CONTAMINATION Two days bris Volume (Estimated) [RESERVED] Box hopper and elevator have been removed. DUST COLLECTION SYSTEM MOLITION DTE: Slab is accounted for in bag house footings Fans and Motors for Dust Collection Fans Motor Total Debris sume Debris Volume Estimated at RAIL CAR UNLOADING FACILITY MOLITION Railroad Pad Retaining walls	s in Section VIIa 9 ft x 2 ft x	5 ft ht x 2 ft ht x 2 ft ht x 4 ft ht x 4 ft ht x 4 ft ht x	I ft th 2 ft th	= =	1 cy 7 cy 2 cy 7 cy 1 cy 8 cy 10 cy

Λ ==	_	20 4	1	4 44	1.4	2 -				240 -4
Are Are		30 ft 15 ft		4 ft	nt ht			=		240 sf 120 sf
Aic	<u>u</u>	10 11	1 /		110	X				360 sf
Floor concrete		15 ft	I x	30 ft	W	x 1 f	t th	=		17 cy
Footing Dimension #1		30 ft	l x	2 ft	w	x 1 f	t th	=		3 cy
Footing Dimension #2		30 ft			w		t th	=		3 cy
Footing Dimension #3		15 ft		2 ft			t th	=		2 cy
Footing Dimension #4		15 ft			w		t th	=		2 cy
Debris Total										10 cy
Footing length		30 ft	1 +	15 ft	1	2 e	a	=		90 If
Total Volume of Debri	S	16 cy	′ +	17 cy	′	+ 10 c	:y	=		43 cy
Soil excavation		30 ft	l x	15 ft	W	x 6 ii	n th	=		9 cy
Earthen Ramp		15 ft	l x	8 ft	W	x 2 f	t ht			9 cy
•	account for slope									
Pad Fill		15 ft	l x	30 ft	W	x 4 f	t ht	=		67 cy
Total soil volume										84 cy
Backfill volume		30 ft	l x	15 ft	W	x 6 ii	n th	=		9 cy
Restoration of Grade		30 ft	l x	15 ft	W			=		50 sy
RAILROADS INSIDE REDEMOLITION Ties, track (fig. 9416-1) g Total Rail length Spacing		n fig. 9513-1								
Tie Dimension	8 ft long	7 in	ht x	9 in	w					
Debris Volume - ties				1000 lf		1.5 c	С	=		667 If
	666	.7 8		7		9		=		87 cy
Rails Cross section area	10	.0								
Debris Volume - Rails	2 Rails	1000 ft	l x	10.0 si		x 2 a	ım	=		6 cy
Total debris volume										00
EXCAVATION Assume all railroads ballast co		•	dimen	sions						93 cy
	oss sections are similar t 8 ft across on top e 1.5 ft average depth 18 ft across on botto	elevation of ballast	dimen	isions						93 cy
Assume all railroads ballast cr	8 ft across on top e 1.5 ft average depth 18 ft across on botto	elevation of ballast om elevation	dimen	isions 26 \	2	= 13 f	t x		1.5 sf	93 су
Assume all railroads ballast ci Ballast	8 ft across on top e 1.5 ft average depth 18 ft across on botto	elevation of ballast om elevation				= 13 f x 1000.0 li			1.5 sf	93 cy 723 cy
Assume all railroads ballast cr Ballast Ballast Area	8 ft across on top e 1.5 ft average depth 18 ft across on botto	elevation of ballast om elevation 18 8		26 \					1.5 sf	ŕ
Assume all railroads ballast cr Ballast Ballast Area Ballast Volume	8 ft across on top e 1.5 ft average depth 18 ft across on botto 18 ft across on top e 1.5 ft of average depth 26 ft across on botto	elevation of ballast on elevation l8 8 8 elevation the of base on elevation elevation		26 \		x 1000.0 lf	=		1.5 sf 1.5 sf	ŕ
Assume all railroads ballast cr Ballast Ballast Area Ballast Volume Base	8 ft across on top e 1.5 ft average depth 18 ft across on botto 18 ft across on top e 1.5 ft of average depth 26 ft across on botto	elevation of ballast om elevation 18 8 elevation th of base om elevation	=	26 \ 19.5 sf	2	x 1000.0 lf	: = t x			723 cy 1223 cy
Assume all railroads ballast cr Ballast Ballast Area Ballast Volume Base	8 ft across on top e 1.5 ft average depth 18 ft across on botto 18 ft across on top e 1.5 ft of average depth 26 ft across on botto	elevation of ballast om elevation 18 8 elevation th of base om elevation	=	26 \ 19.5 sf	2	x 1000.0 lt	: = t x			723 cy
Assume all railroads ballast cr Ballast Ballast Area Ballast Volume Base Base Area Base Volume	8 ft across on top e 1.5 ft average depth 18 ft across on botto 18 ft across on top e 1.5 ft of average depth 26 ft across on botto 2 along rail bed is assume tited as part of ballast and on or buildings to be the matage pad	elevation of ballast or elevation 8 8 8 elevation 18 8 8 elevation 18 8 18 elevation 18	= = dde and asse M able.	26 \ 19.5 sf 44 \ 33.0 sf	2	x 1000.0 lt	: = t x			723 cy 1223 cy
Assume all railroads ballast or Ballast Ballast Area Ballast Volume Base Base Area Base Volume Total Volume NOTE: Preliminary excavation Assume credit for area excavation Assume credit for area excavation Length along East sto Run on/ Run off Berm Total excavation on or Area of railroad excavation	8 ft across on top e 1.5 ft average depth 18 ft across on botto 18 ft across on top e 1.5 ft of average depth 26 ft across on botto 2 along rail bed is assume ted as part of ballast and on or buildings to be the ma age pad es side xcavation	elevation of ballast om elevation 18 8 elevation th of base om elevation 26 18 ed to be 50 ft wird d base. Back distance avail 500 ft 1000 ft	= = dde and asse M able.	26 \ 19.5 sf 44 \ 33.0 sf d 6 inches deep. aterial Excavation	2 on	x 1000.0 lt = 22 f x 1000.0 lt	t x	=		723 cy 1223 cy 1945 cy 50000 sf
Assume all railroads ballast or Ballast Ballast Area Ballast Volume Base Base Area Base Volume Total Volume NOTE: Preliminary excavation Assume credit for area excavation Ballast Material Excavation NOTE: Areas along pads and. Length along East sto Run on/ Run off Berm Total excavation on or Area of railroad et Less Area of bas	8 ft across on top e 1.5 ft average depth of the series of	elevation of ballast or elevation 18 8 elevation th of base or elevation 26 18 ed to be 50 ft wind base. Eax distance avail 500 ft 1500 ft	= = dde and asse M lable.	26 \ 19.5 sf 44 \ 33.0 sf d 6 inches deep. aterial Excavation	2 on	x 1000.0 lt = 22 f x 1000.0 lt	t x	=		723 cy 1223 cy 1945 cy 50000 sf 26000 sf
Ballast Area Ballast Volume Base Base Area Base Volume Total Volume NOTE: Preliminary excavation Assume credit for area excavation Ballast Material Excavation NOTE: Areas along pads and. Length along East sto Run on/ Run off Berm Total excavation on or Area of railroad e Less Area of bas	8 ft across on top e 1.5 ft average depth 18 ft across on botto 18 ft across on top e 1.5 ft of average depth 26 ft across on botto 2 along rail bed is assume ted as part of ballast and on or buildings to be the ma age pad es side xcavation	elevation of ballast om elevation 18 8 elevation th of base om elevation 26 18 ed to be 50 ft wird d base. Back distance avail 500 ft 1000 ft	= = dde and asse M lable.	26 \ 19.5 sf 44 \ 33.0 sf d 6 inches deep. aterial Excavation	2 on	x 1000.0 lt = 22 f x 1000.0 lt	t x			723 cy 1223 cy 1945 cy 50000 sf 26000 sf 750 sf
Ballast Area Ballast Volume Base Base Area Base Volume Total Volume NOTE: Preliminary excavation Assume credit for area excavation Ballast Material Excavation NOTE: Areas along pads and. Length along East sto Run on/ Run off Berm Total excavation on or Area of railroad e Less Area of bas	8 ft across on top e 1.5 ft average depth of the state of	elevation of ballast or elevation 18 8 elevation th of base or elevation 26 18 ed to be 50 ft wind base. Eax distance avail 500 ft 1500 ft	= = dde and asse M lable.	26 \ 19.5 sf 44 \ 33.0 sf d 6 inches deep. aterial Excavation	2 on	x 1000.0 lt = 22 f x 1000.0 lt	: = : : : : : : : : : : : : : : : : : :	=		723 cy 1223 cy 1945 cy 50000 sf 26000 sf
Assume all railroads ballast cr Ballast Ballast Area Ballast Volume Base Base Area Base Volume Total Volume NOTE: Preliminary excavatior Assume credit for area excavation Ballast Material Excavation VOTE: Areas along pads and Length along East sto Run on/ Run off Berm Total excavation on or Area of railroad e Less Area of bas Less barrier of ex	8 ft across on top e 1.5 ft average depth of the state of	elevation of ballast or elevation 18 8 elevation th of base or elevation 26 18 ed to be 50 ft wind base. Eax distance avail 500 ft 1500 ft	= = dde and asse M lable.	26 \ 19.5 sf 44 \ 33.0 sf d 6 inches deep. aterial Excavation 1000 lf 1000 lf 2 ar 23250.0 sf	2 on	x 1000.0 h = 22 f x 1000.0 h x 50 f 26 f e on each side	t x := :	= =		723 cy 1223 cy 1945 cy 50000 sf 26000 sf 750 sf 23250 sf 431 cy
Assume all railroads ballast or Ballast Ballast Area Ballast Volume Base Base Area Base Volume Total Volume NOTE: Preliminary excavation Assume credit for area excavation Assume credit for area excavation Assume credit for area excavation UTE: Areas along pads and, Length along East sto Run on/ Run off Berm Total excavation on or Area of railroad excavation Less Area of bas Less barrier of exception Preliminary Excavation Soil volume for disposal	8 ft across on top e 1.5 ft average depth 18 ft across on botto 1 18 ft across on top e 1.5 ft of average depth 26 ft across on botto 2 along rail bed is assume ted as part of ballast and on or buildings to be the matage pad the side excavation eccavation on one side 1 Volume	elevation of ballast or elevation 18 8 elevation th of base or elevation 26 18 ed to be 50 ft wind base. Eax distance avail 500 ft 1500 ft	= = dde and asse M lable.	26 \ 19.5 sf 44 \ 33.0 sf d 6 inches deep. aterial Excavation 1000 lf 1000 lf 2 ar 23250.0 sf	2 on m on	x 1000.0 h = 22 f x 1000.0 h x 50 f x 26 f e on each side x 6 ii + 431 c	: = : : : : : : : : : : : : : : : : : :	= = =		723 cy 1223 cy 1945 cy 50000 sf 26000 sf 750 sf 23250 sf 431 cy 2376 cy
Assume all railroads ballast or Ballast Ballast Area Ballast Volume Base Base Area Base Volume Total Volume NOTE: Preliminary excavation Assume credit for area excavation COTE: Areas along pads and. Length along East sto Run on/ Run off Berm Total excavation on or Area of railroad e Less Area of bas Less barrier of excavation Preliminary Excavation Soil volume for disposal Haul volume = soil + ties/	8 ft across on top e 1.5 ft average depth of the across on botto 18 ft across on botto 18 ft across on top e 1.5 ft of average depth of the across on botto 26 ft across on botto 27 along rail bed is assumed the aspart of ballast and on or buildings to be the mainage pad the side according to the across on one of the across on the across on the across on the across on the across of the across of the across on the across	elevation of ballast or elevation 18 8 elevation th of base or elevation 26 18 ed to be 50 ft wind base. Eax distance avail 500 ft 1500 ft	= = dde and asse M lable.	26 \ 19.5 sf 44 \ 33.0 sf d 6 inches deep. aterial Excavation 1000 lf 1000 lf 2 ar 23250.0 sf	2 on m on	x 1000.0 h = 22 f x 1000.0 h x 50 f 26 f e on each side	: = : : : : : : : : : : : : : : : : : :	= =		723 cy 1223 cy 1945 cy 50000 sf 26000 sf 750 sf 23250 sf 431 cy 2376 cy 2469 cy
Ballast Area Ballast Volume Base Base Area Base Volume Total Volume NOTE: Preliminary excavation Assume credit for area excavation COTE: Areas along pads and. Length along East sto Run on/ Run off Berm Total excavation on or Area of railroad e Less Area of bas Less barrier of excavation Soil volume for disposal Haul volume = soil + ties/ Backfill = soil excavation	8 ft across on top e 1.5 ft average depth of the across on botto 18 ft across on botto 18 ft across on top e 1.5 ft of average depth of the across on botto 26 ft across on botto 27 along rail bed is assumed the aspart of ballast and on or buildings to be the mainage pad the side according to the across on one of the across on the across on the across on the across on the across of the across of the across on the across	elevation of ballast or elevation 18 8 elevation th of base or elevation 26 18 ed to be 50 ft wind base. Eax distance avail 500 ft 1500 ft	= = dde and asse M lable.	26 \ 19.5 sf 44 \ 33.0 sf d 6 inches deep. aterial Excavation 1000 lf 1000 lf 2 ar 23250.0 sf	2 on m on	x 1000.0 h = 22 f x 1000.0 h x 50 f x 26 f e on each side x 6 ii + 431 c	: = : : : : : : : : : : : : : : : : : :	= = =		723 cy 1223 cy 1945 cy 50000 sf 26000 sf 750 sf 23250 sf 431 cy 2376 cy 2469 cy 431 cy
Assume all railroads ballast or Ballast Ballast Area Ballast Volume Base Base Area Base Volume Total Volume NOTE: Preliminary excavation Assume credit for area excavation COTE: Areas along pads and. Length along East sto Run on/ Run off Berm Total excavation on or Area of railroad e Less Area of bas Less barrier of excavation Preliminary Excavation Soil volume for disposal Haul volume = soil + ties/	8 ft across on top e 1.5 ft average depth of the across on botto 18 ft across on botto 18 ft across on top e 1.5 ft of average depth of the across on botto 26 ft across on botto 27 along rail bed is assumed the aspart of ballast and on or buildings to be the mainage pad the side according to the across on one of the across on the across on the across on the across on the across of the across of the across on the across	elevation of ballast or elevation 18 8 elevation th of base or elevation 26 18 ed to be 50 ft wind base. Eax distance avail 500 ft 1500 ft	= = dde and asse M lable.	26 \ 19.5 sf 44 \ 33.0 sf d 6 inches deep. aterial Excavation 1000 lf 1000 lf 2 ar 23250.0 sf	2 on m on	x 1000.0 h = 22 f x 1000.0 h x 50 f x 26 f e on each side x 6 ii + 431 c	: = : : : : : : : : : : : : : : : : : :	= = =		723 cy 1223 cy 1945 cy 50000 sf 26000 sf 750 sf 23250 sf 431 cy 2376 cy 2469 cy
Assume all railroads ballast or Ballast Ballast Area Ballast Volume Base Base Area Base Volume Total Volume NOTE: Preliminary excavation Assume credit for area excavation Allast Material Excavation Ann on/ Run off Berm Total excavation on or Area of railroad e Less Area of bas Less barrier of excavation Soil volume for disposal Haul volume = soil + ties/ Backfill = soil excavation	8 ft across on top e 1.5 ft average depth of the across on botto 18 ft across on botto 1	elevation of ballast or elevation 18 8 elevation th of base or elevation 26 18 ed to be 50 ft wind base. Eax distance avail 500 ft 1500 ft	= = dde and asse M lable.	26 \ 19.5 sf 44 \ 33.0 sf d 6 inches deep. aterial Excavation 1000 lf 1000 lf 2 ar 23250.0 sf	2 on m on	x 1000.0 h = 22 f x 1000.0 h x 50 f x 26 f e on each side x 6 ii + 431 c	: = : : : : : : : : : : : : : : : : : :	= = =		723 cy 1223 cy 1223 cy 1945 cy 50000 sf 26000 sf 750 sf 23250 sf 431 cy 2376 cy 2469 cy 431 cy
Assume all railroads ballast or Ballast Ballast Area Ballast Volume Base Base Area Base Volume Total Volume NOTE: Preliminary excavation Assume credit for area excavation Ballast Material Excavation OTE: Areas along pads and, Length along East sto Run on/ Run off Berm Total excavation on or Area of railroad et Less Area of bas Less barrier of except of excavation Soil volume for disposal Haul volume = soil + ties/ Backfill = soil excavation Final Grade ROADS INSIDE RESTRI	8 ft across on top e 1.5 ft average depth of the across on botto 18 ft across on botto 1	elevation of ballast on elevation 18 8 8 elevation 18 8 elevation 18 18 elevation 18 18 elevation 18 18 elevation 18 eleva	= = dde and asse M able.	26 \ 19.5 sf 44 \ 33.0 sf d 6 inches deep. laterial Excavation 1000 lf 1000 lf 2 ar 23250.0 sf 1945.0 cy 2376.0 cy	2 on m on	x 1000.0 h = 22 f x 1000.0 h x 50 f x 26 f e on each side x 6 ii + 431 c + 93 c	t x	= = =		723 cy 1223 cy 1223 cy 1945 cy 50000 sf 26000 sf 750 sf 23250 sf 431 cy 2376 cy 2469 cy 431 cy
Ballast Area Ballast Volume Base Base Area Base Volume Total Volume NOTE: Preliminary excavation Assume credit for area excavation Length along East sto Run on/ Run off Berm Total excavation on or Area of railroad e Less Area of bas Less barrier of excavation Preliminary Excavation Soil volume for disposal Haul volume = soil + ties/ Backfill = soil excavation Final Grade ROADS INSIDE RESTRINOTE: All roads are assumed EXCAVATION	8 ft across on top e 1.5 ft average depth of the across on botto 18 ft across on botto 1	elevation of ballast on elevation 18 8 8 elevation 18 8 elevation 18 18 elevation 18 18 elevation 18 18 elevation 18 eleva	= = dde and asse M able.	26 \ 19.5 sf 44 \ 33.0 sf d 6 inches deep. laterial Excavation 1000 lf 1000 lf 2 ar 23250.0 sf 1945.0 cy 2376.0 cy	2 on one	x 1000.0 lf = 22 f x 1000.0 lf x 50 f 26 f e on each side x 6 if + 431 c + 93 c soil excavation	t x t x t x t x t x t x t x t x	= = =		723 cy 1223 cy 1945 cy 50000 sf 26000 sf 750 sf 23250 sf 431 cy 2376 cy 2469 cy 431 cy 2584 sy
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	Backfill = soil excavation volume Final Grade		3045 lf	x	25 ft w	=	1410 cy 8459 sy
	ROADS OUTSIDE RESTRICTED AREA OTE: All roads are assumed to be 25 feet wide. (CAVATION Road Outside Restricted Area						
	Asphalt Final Grade	750 ft I x	25 ft 750 lf	w x	3 in th 25 ft w	=	174 cy 2084 sy
Xc EX	ASPHALT PAD OUTSIDE RESTRICTED AREA (CAVATION Asphalt Pad						
	Asphalt Asphalt Final Grade	100 ft I x 100 ft I x		w w x x	3 in th 50 ft w	= =	556 sy 47 cy 556 sy
ΧI	REAGENT DELIVERY SILOS						
	DISMANTLEMENT Assume 3 days DEMOLITION Concrete Pad	25 ft I x	25 ft	w x	24 in th	=	47 cy
	Estimated Debris Total debris		5 cy	Х	2 ea	=	10 cy 57 cy
XII	EVAPORATION POND						
	DEMOLITION Pond Size HDPE Liner EXCAVATION	250 ft I x 250 ft I x			7 ft dp 0.28 in th	= =	9723 cy 33 cy
	Sludge removal Soil Excavation Restoration of Grade	250 ft x 250 ft x 250 ft x	150 ft 150 ft	w x w x	3 in th 6 in th 6 in th	= = =	348 cy 695 cy 695 cy
	Add Pond Depth Haul volume Backfill Final grade	250 ft I x			7 ft dp	=	9723 cy 1076 cy 10418 cy 4167 sy
XIII	EVAPORATION TANKS (6) DEMOLITION						
	Tank #225 and #250 (calculations for one tank) Tank Pad Area	75 ft I x 75 ft I x		w x w	10 in th	=	174 cy 625 sy
	Stem Wall (sf) Stem Wall Tank Footings Outside Cr Tank Footings Inside Cr	300 lf x 300 lf x 30.5 ft rd x 29.5 ft rd x	3 ft 30.5 ft		2 ea 6 in th 3.14 pi 3.14 pi	= = = =	1800 sf 17 cy 2921 ar 2733 ar
	Actual Cr	18 in th x	2921.0 ar 188.4 ar	sf - sf	2732.6 ar sf	= =	21 sy 11 cy
	Pad Footings Area Truck Unloading Footing Area	12 in th x 1 ft l x 66 lf x 66 ft l x	300 ft 6 in	w ht x		= = = =	12 cy 34 sy 1 cy 4 sy
	Truck Unloading Pad Area Tank steel	42 ft x 42 ft x	12 ft	w x	10 in th	=	16 cy 56 sy
	Walls Floor	60 ft I x 60 ft di x		w x	0.25 in th	=	243 cf 2826 sf
	Tank debris Subtotal Debris Total for both tanks		240 cy	x	2 tanks	=	9 cy 240 cy 480 cy
	Tank #125, #150, #175, #200, Evaporation Tanks Pads (2) Stem Wall (sf)	100 lf x	1 ft	ht x	2 ea	=	200 sf
	Stem Wall Floor Area	100 lf x 30 ft l x 30 ft l x	1 ft 20 ft 20 ft	ht x w x w	6.0 in w 1 ft th	= = =	2 cy 23 cy 67 sy
	Wash Pad Area Footing Dimensions Area	30 ft x 30 ft x 100 ft x 100 ft x	12 ft 2 ft	w x		= = = =	14 cy 40 sy 8 cy 23 sy
	Tank steel	15 ft I x		w x	2 in th	=	cy/each

Tank debris			1 cy x	4 am	=	4 cy
Subtotal Debris			51 cy x	2 ea	=	102 cy
Stem Wall Total (sf)						2200 sf
Footing/pad total area			870 sy x	2 ea	=	1740 sy
= :			Oro Sy X	2 00	-	304 cy
Footing/pad total volume			100	100 00		•
Total debris for all tanks			480 cy +	102 cy	=	582 cy
Soil Excavation Pad		75 ft I x	75 ft w x	6 in dp	=	105 cy
Truck Unloading Pad Soil		42 ft I x	12 ft w x	6 in th	=	10 cy
Soil Excavation Tanks	2 am x	30 ft I x	20 ft w x	6 in dp	=	12 cy
Total in (sy)						748 sy
Total Soil						127 cy
Haul volume = debris + soil			582 cy +	127 cy	=	709 cy
Backfill = soil excavation volum			302 Cy	121 Oy	_	127 cy
Final grade = soil excavation a						748 sy
ON SITE OPEN AREAS						
Includes anything not covered	by other sections an	d will include heavy macl	hinery, power poles, fe	encing, utilities, etc.		
MOLITION						
Propane Tanks Pad		30 ft I	6 ft w	4 in th	=	3 cy
Cement Exchange Ramp						,
Holding Tank			3.14 pi x	5 ft rd	=	2.91 cy
Fishering Falls	2 Sides x	20 tt ht v		10 ft di		,
Tools Tatal	Z Sides X	20 ft ht x	3.14 pi x	וט ונ מו	=	2.96 cy
Tank Total						6 cy
Tank Volume		20 ft ht x	3.14 pi x	5 ft rd	=	59 cy
Retaining Wall		8 ft I x	10 ft ht x	1 ft th	=	3 cy
Retaining Wall		8 ft I x	10 ft ht x	1 ft th	=	3 cy
Retaining Wall		15 ft I x	10 ft ht x	1 ft th	=	6 cy
		15 11 1	10 It IIt X	1 11 111		310 sf
Debris (sf) Debris Total						12 cy
R-25 Equivalents						
B-25 Equivalents	nated at	1 cv x	6000 containers		_	6000 cv
Each container is estin	nated at	1 cy x	6000 containers		=	6000 cy
Each container is estin			6000 containers		=	
Each container is estin Debris Total Assume B-25 container torch of			6000 containers		=	
Each container is estin Debris Total Assume B-25 container torch of Power Poles	eut, assume \$105.29	per B-25 equivalent			=	
Each container is estin Debris Total Assume B-25 container torch of Power Poles Assume 1 ft diameter. Cut into	eut, assume \$105.29	per B-25 equivalent			=	
Each container is estin Debris Total Assume B-25 container torch of Power Poles Assume 1 ft diameter. Cut into Assume 1 cy / pole and wire	eut, assume \$105.29	per B-25 equivalent x 10". Dispose of all pole	es in embankment.			6000 cy
Each container is estin Debris Total Assume B-25 container torch of Power Poles Assume 1 ft diameter. Cut into Assume 1 cy / pole and wire Total Poles Assume 2 days	eut, assume \$105.29 pieces less than 8'	per B-25 equivalent			=	6000 cy 14 cy
Each container is estin Debris Total Assume B-25 container torch of Power Poles Assume 1 ft diameter. Cut into Assume 1 cy / pole and wire Total Poles Assume 2 days Misc debris Assume 5 days	eut, assume \$105.29 pieces less than 8'	per B-25 equivalent x 10". Dispose of all pole	es in embankment.		=	6000 cy 14 cy 14 cy
Each container is estin Debris Total Assume B-25 container torch of Power Poles Assume 1 ft diameter. Cut into Assume 1 cy / pole and wire Total Poles Assume 2 days	eut, assume \$105.29 pieces less than 8'	per B-25 equivalent x 10". Dispose of all pole	es in embankment.	1 in		6000 cy 14 cy 14 cy 163 cy
Each container is estin Debris Total Assume B-25 container torch of Power Poles Assume 1 ft diameter. Cut into Assume 1 cy / pole and wire Total Poles Assume 2 days Misc debris Assume 5 days	eut, assume \$105.29 pieces less than 8'	per B-25 equivalent x 10". Dispose of all pole	es in embankment.	1 in	=	6000 cy 14 cy 14 cy 163 cy
Each container is esting Debris Total Assume B-25 container torch of Power Poles Assume 1 ft diameter. Cut into Assume 1 cy / pole and wire Total Poles Assume 2 days Misc debris Assume 5 days Fencing Total debris CAVATION	eut, assume \$105.29 pieces less than 8'	per B-25 equivalent x 10". Dispose of all pole 14 am x 3900 lf 1 x	es in embankment. 1 cy x 6 ft ht x		=	6000 cy 14 cy 163 cy 191 cy
Each container is esting Debris Total Assume B-25 container torch of Power Poles Assume 1 ft diameter. Cut into Assume 1 cy / pole and wire Total Poles Assume 2 days Misc debris Assume 5 days Fencing Total debris CAVATION Cement Exchange Ramp	eut, assume \$105.29 pieces less than 8'	per B-25 equivalent x 10". Dispose of all pole	es in embankment.	1 in 15 ft w	=	6000 cy 14 cy 14 cy 163 cy 191 cy 167 cy
Each container is esting Debris Total Assume B-25 container torch of Power Poles Assume 1 ft diameter. Cut into Assume 1 cy / pole and wire Total Poles Assume 2 days Misc debris Assume 5 days Fencing Total debris CAVATION	eut, assume \$105.29 pieces less than 8'	per B-25 equivalent x 10". Dispose of all pole 14 am x 3900 lf 1 x	es in embankment. 1 cy x 6 ft ht x		=	6000 cy 14 cy 14 cy 163 cy 191 cy 167 cy
Each container is esting Debris Total Assume B-25 container torch of Power Poles Assume 1 ft diameter. Cut into Assume 1 cy / pole and wire Total Poles Assume 2 days Misc debris Assume 5 days Fencing Total debris CAVATION Cement Exchange Ramp	eut, assume \$105.29 pieces less than 8'	per B-25 equivalent x 10". Dispose of all pole 14 am x 3900 lf 1 x	es in embankment. 1 cy x 6 ft ht x		=	6000 cy 14 cy 14 cy 163 cy 191 cy 167 cy
Each container is estin Debris Total Assume B-25 container torch of Power Poles Assume 1 ft diameter. Cut into Assume 1 cy / pole and wire Total Poles Assume 2 days Misc debris Assume 5 days Fencing Total debris CAVATION Cement Exchange Ramp Debris Subtotal Tank Volume	eut, assume \$105.29 pieces less than 8'	per B-25 equivalent x 10". Dispose of all pole 14 am x 3900 lf 1 x	es in embankment. 1 cy x 6 ft ht x		=	6000 cy 14 cy 14 cy 163 cy 191 cy 167 cy 167 cy -59 cy
Each container is esting Debris Total Assume B-25 container torch of Power Poles Assume 1 ft diameter. Cut into Assume 1 cy / pole and wire Total Poles Assume 2 days Misc debris Assume 5 days Fencing Total debris CAVATION Cement Exchange Ramp Debris Subtotal Tank Volume Ramp Soil Subtotal	eut, assume \$105.29 p pieces less than 8'	per B-25 equivalent x 10". Dispose of all pole 14 am x 3900 lf I x	es in embankment. 1 cy x 6 ft ht x		=	6000 cy 14 cy 14 cy 163 cy 191 cy 167 cy 167 cy -59 cy
Each container is estin Debris Total Assume B-25 container torch of Power Poles Assume 1 ft diameter. Cut into Assume 1 cy / pole and wire Total Poles Assume 2 days Misc debris Assume 5 days Fencing Total debris CAVATION Cement Exchange Ramp Debris Subtotal Tank Volume	eut, assume \$105.29 p pieces less than 8'	per B-25 equivalent x 10". Dispose of all pole 14 am x 3900 lf I x 30 ft I x	es in embankment. 1 cy x 6 ft ht x	15 ft w	=	14 cy 14 cy 163 cy 191 cy 167 cy 167 cy -59 cy 108 cy
Each container is estin Debris Total Assume B-25 container torch of Power Poles Assume 1 ft diameter. Cut into Assume 1 cy / pole and wire Total Poles Assume 2 days Misc debris Assume 5 days Fencing Total debris CAVATION Cement Exchange Ramp Debris Subtotal Tank Volume Ramp Soil Subtotal	eut, assume \$105.29 p pieces less than 8' :	per B-25 equivalent x 10". Dispose of all pole 14 am x 3900 lf I x 30 ft I x at Building 200 ft I x	es in embankment. 1 cy x 6 ft ht x 10 ft ht x		=	14 cy 14 cy 163 cy 191 cy 167 cy 167 cy -59 cy 108 cy
Each container is estin Debris Total Assume B-25 container torch of Power Poles Assume 1 ft diameter. Cut into Assume 1 cy / pole and wire Total Poles Assume 2 days Misc debris Assume 5 days Fencing Total debris CAVATION Cement Exchange Ramp Debris Subtotal Tank Volume Ramp Soil Subtotal Section Between Earthen Ram	eut, assume \$105.29 p pieces less than 8' :	per B-25 equivalent x 10". Dispose of all pole 14 am x 3900 If I x 30 ft I x at Building 200 ft I x south to MW Treatment	es in embankment. 1 cy x 6 ft ht x 10 ft ht x 75 ft w x building	15 ft w	= =	14 cy 14 cy 163 cy 191 cy 167 cy 167 cy -59 cy 108 cy 278 cy
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XV HEALTH PHYSICS STAFF AND RADIATION SURVEY EQUIPMENT

Assume HP support is needed for 18 months to account for pre-closure site preparation and post-closure shut down. Fully fund HP staff for radiation survey, hazardous waste survey, and construction monitoring activities. Fully fund PPE

survey equipment, badging, and QC confirmatory analytical analysis; take no credit for existing equipment at the site. The entire site will be monitored to determine the spread of contamination, if any. If contamination is found near the

boundaries, off site monitoring will also be performed.

NOTE: Left column reflects original estimated cost; right column incorporates adjustment for inflation.

Equipment: assume

PPE and Misc Supplies (Lump Sum)	\$	10,707.93
In-situ gamma spectrometer (2)	\$	41,249.52
Badging	\$	16,061.91
QUAI Confirmatory Analysis 400 samples x \$ 255.00 ea =	= \$	105,186.28
Personnel: assume 18 months for all staff		
Senior Health Physicist (per hour)	\$	96.33
Senior HP Technician (per hour)	\$	60.84
HP Technicians (3) (per hour)	\$	50.70
Closure Report: Estimated cost	\$	53,644.95
Monuments: Assume 2	\$	2,627.08

XVI CELL CLOSURE

The final cover will consist of a filter, gravel, clay, and a flexible synthetic layer as described in the RCRA permit.

Inspection roads will be added with drainage ditches and a drainage field. All retention ponds and Run on/ run off dikes will be removed. A six foot high permanent chain link fence will be installed and maintained.

Covers

Constants for Calculations

Note: All layers except HDPE/Geotextile calculated to the middle of the layer

Compacted soil 'wedge'

Native soil used to fill the area identified as "to be filled with native clay material" between toe of waste and 5:1 slope; see drawing 0017-05

Dimensions		12.5 f	t lo	x #	26 ft	l x	38.24 ft	2.5 height	
	Area= 1/2* base								
		0.5 f	t :	X	38.24 ft	Х	2.5 ft		48 sf
Radon Barrier			400 0404 6 1	0-1-	to alcoha a alaont	.1 . 4 . 9 .	_		404.5
Side Slopes	Measurements		160.6191 π 1	tnis	includes slant 157.5 ft			ht	161 ft
	Equation Used 1	to find length w	as A(square)	+ B(sa			31.5 10	III	
	Equation Good	io iii a longin w	ao / ((oquaio)	. 5(04	uu.o/	110)			
Slope Corne	ers	:	25297.51 sf						25298 sf
·	Measurements		2 Sid	les	157.5 ft	l x	160.6 ft	ht	
	Equation Used 1	to find area was	1/2 * base *	height					
HDPE and Geote									
Side Slopes			165.718 ft I	this	includes slant			L.	166 ft
	Measurements	to find longth w	no Aleguero)	ı D/oa	162.5 ft		32.5 ft	nt	
	Equation Used 1	to find length w	as A(square)	+ B(Sq	luare) = C(squa	are)			
Slope Corne	ers		26929.18 sf						26930 sf
0.000	Measurements	i i	2 Sid	les	162.5 ft	Ιx	165.7 ft	ht	2000 0.
	Equation Used 1	to find area was	1/2 * base *	height					
Type B Filter									
Slopes			166.9929 ft I	this	includes slant	details	S		167 ft
	Measurements				163.75 ft		32.75 ft	ht	
	Equation Used 1	to find length wa	as A(square)	+ B(sq	luare) = C(squa	are)			
21 2			270.45.00 -6						07040 -
Slope Corne	ers Measurements		27345.09 sf 2 Sid	loo	163.75 ft	Ιx	167.0 ft	ht	27346 sf
	Equation Used 1	to find length w					167.0 11	III	
	Equation Oseu 1	to find length w	as A(square)	+ D(34	juaie) – O(squa	aie)			
Sacrificial Soil									
Slopes			170.8172 ft I	this	includes slant	details	5		171 ft
	Measurements				167.5 ft	l x	33.5		
	Equation Used 1	to find length w	as A(square)	+ B(sq	luare) = C(squa	are)			
Slope Corne		-	28611.87 ft I		407.5		470 0470 (L.	28612 sf
	Measurements Equation Used 1	to find longth w	2 Sid		167.5 ft		170.8172 ft	nt	
	Equation Used 1	to find length w	as A(square)	+ 0(54	juare) = C(Squa	are)			
Type A Filter									
Slopes			174.641 ft I	this	includes slant	details	3		175 ft
·	Measurements				171.25 ft	l x	34.25 ft	ht	
	Equation Used 1	to find length w	as A(square)	+ B(sq	uare) = C(squa	are)			
Slope Corne			29907.27 sf		474.05		47400	L.	29908 sf
	Measurements	to find area	2 Sid		171.25 ft	I X	174.6 ft	nt	
	Equation Used 1	io imo area was	i/Z base "	neignt					
Rock Cover									
Slopes			179.74 ft I	this	includes slant	details	3		180 ft
•	Measurements				176.25 ft	l x	35.25 ft	ht	
	Equation Hand t	to find langth w	oc Alcanoral	. D/oa	uoro) C(oque				

Equation Used to find length was A(square) + B(square) = C(square)

	pe Corners 31679.18 sf	31680 sf
	Measurements 2 Sides 176.25 ft x 179.7 ft ht Equation Used to find area was 1/2 * base * height	
Calculate ar	ea to be covered	
	r corners use layer-specific areas calculated above x 4	
	Radon Barrier 25298 sf x 4 corners =	101192 sf
	HDPE and Geotextile 26930 sf x 4 corners =	107720 sf
	Type B Filter 27346 sf x 4 corners =	109384 sf
	Sacrificial Soil 28612 sf x 4 corners =	114448 sf
	Type A Filter 29908 sf x 4 corners =	119632 sf
	Rock Cover 31680 sf x 4 corners =	126720 sf
	ch sump is 373' (east-west) x 150' (north-south) side slope length for 12 sumps	
Side	e slopes east and west sides of cell	
Side	8 sumps x 150 lf each = 1200 lf - 280 lf (corners at to	920 If
	2 sumps x 373 If each = 746 If - 280 If (corners at to	466 If
Tota	al side slope length = $920 \text{ lf} + 466 \text{ lf} \times 2 =$	2772 If
Тор	slope	
	Assume top slope constructed to dimensions for east and south side slopes Overall topslope area = 920 If x 466 If	428720 sf
Summary: Tota	al area to be covered per layer:	
	Compacted soil 'wedge' Volume = cross-sectional area from above x total side slope length	
	48 sf x 2772 lf =	4928 cy
	Add corners: use length of top of waste layer (140 ft) * 8 segments (2 per corner)	,
	Note: This slightly overstates volume at the corner.	
	48 sf x 140 ft x 8 segments =	1992 cy
	Total compacted soil volume	6920 cy
Note: Assum	ne 11% of radon barrier volume is overburden.	
	Radon Barrier	
	Side slopes 2772 If x 161 ft =	446292 sf
	Corners =	101192 sf
	Top slope =	428720 sf
	Total radon barrier area = 976204 sf x 2 ft thick =	1952408 cf
	Total radon barrier volume = 1952408 cf/27	72312 cy
	Remove overburden 72,312 cy x 0.11	7955 cy
	Deflocculant (STPP)	
	Applied at a rate of 3.5 lbs STPP per 50 cf radon barrier clay. 1,952,408 cf / 50 = 39048.16 x 3.5 lbs/50cf =	
	1,932,400 CI7 30 = 39040.10 X 3.3 IB3/30CI =	136669 lbs STPP
	HDPE and Geotextile	136669 lbs STPP
		136669 lbs STPP 460152 sf
	HDPE and Geotextile	
	HDPE and Geotextile Side slopes 2772 If x 166 ft =	460152 sf
	HDPE and Geotextile Side slopes 2772 If x 166 ft = Corners =	460152 sf 107720 sf
	HDPE and Geotextile Side slopes 2772 If x 166 If = Corners = Top slope =	460152 sf 107720 sf 428720 sf
	HDPE and Geotextile Side slopes Corners Top slope Total HDPE and Geotextile area Type B filter Side slopes 2772 f x	460152 sf 107720 sf 428720 sf
	HDPE and Geotextile Side slopes	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf
	## HDPE and Geotextile Side slopes	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf
	HDPE and Geotextile Side slopes	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf
	HDPE and Geotextile Side slopes	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf
	HDPE and Geotextile Side slopes	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy
	HDPE and Geotextile Side slopes	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf
	HDPE and Geotextile Side slopes	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf
	## HDPE and Geotextile Side slopes 2772 f x 166 ft =	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf 428720 sf
	HDPE and Geotextile Side slopes Corners Top slope Total HDPE and Geotextile area Type B filter Side slopes Corners Top slope Total Type B filter area Total Type B f	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf 428720 sf 1017180 cf
	HDPE and Geotextile Side slopes	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf 428720 sf
	## HDPE and Geotextile Side slopes	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf 428720 sf 1017180 cf 37674 cy
	HDPE and Geotextile	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf 428720 sf 1017180 cf 37674 cy 485100 sf
	HDPE and Geotextile	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf 428720 sf 1017180 cf 37674 cy 485100 sf 119632 sf
	HDPE and Geotextile	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf 428720 sf 1017180 cf 37674 cy 485100 sf 119632 sf 428720 sf
	HDPE and Geotextile	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf 428720 sf 1017180 cf 37674 cy 485100 sf 119632 sf 428720 sf 516726 cf
	HDPE and Geotextile	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf 428720 sf 1017180 cf 37674 cy 485100 sf 119632 sf 428720 sf
	HDPE and Geotextile	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf 428720 sf 1017180 cf 37674 cy 485100 sf 119632 sf 428720 sf 516726 cf 19138 cy
	HDPE and Geotextile Side slopes 2772 f x 166 ft =	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf 428720 sf 1017180 cf 37674 cy 485100 sf 119632 sf 428720 sf 516726 cf 19138 cy
	## HDPE and Geotextile Side slopes 2772 f x 166 ft =	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf 428720 sf 1017180 cf 37674 cy 485100 sf 119632 sf 428720 sf 516726 cf 19138 cy
	## HDPE and Geotextile Side slopes	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf 428720 sf 1017180 cf 37674 cy 485100 sf 119632 sf 428720 sf 516726 cf 19138 cy 498960 sf 126720 sf 428720 sf
	## HDPE and Geotextile Side slopes	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf 428720 sf 1017180 cf 37674 cy 485100 sf 119632 sf 428720 sf 516726 cf 19138 cy 498960 sf 126720 sf 428720 sf 1581600 cf
	## HDPE and Geotextile Side slopes	460152 sf 107720 sf 428720 sf 996592 sf 462924 sf 109384 sf 428720 sf 500514 cf 18538 cy 474012 sf 114448 sf 428720 sf 1017180 cf 37674 cy 485100 sf 119632 sf 428720 sf 516726 cf 19138 cy 498960 sf 126720 sf 428720 sf

Roads (East and West)				800 ft	х	2 sides	=	1600 If
Roads (North and South)				960 ft I	Х	2 sides	=	1920 If
Total Roads								3520 lf
Roads				3520.0 If	х	12 ft w	=	4694 sy
Roads				42240 sf	х	1 ft th	=	1565 cy
ainage								
Ditch Perimeters (East and W	/est)			750 ft	х	2 sides		1500 If
Ditch Perimeters (North and S	South)			910 ft I	х	2 sides		1820 If
								3320 If
Excavation of Ditches		3320 lf	х	16 ft	v x	3 ft dp	=	5903 cy
Note: Ditch dimension	ns updated to those in c	drawing 0017-	06, rev.	G.				
Excavation of Material		3320 lf	х	16 ft	v x	1.5 ft dp	=	2952 cy
Conversion to tons	1.6 tons / 1 cy			1.6 ton	s x	2952 cy	=	4723 ton
Screening	280cy/hour			4723 Tor	s\	280 hour	=	17 hr
				17 hou	r \	8 hour	=	3 da
ter Layer								
Excavation of Ditches		3320 If	х	16 ft	v x	0.5 ft dp	=	984 cy
nces								·
Installation of permanent F	encing			3100 If				3100 lf
Signs		3100 lf		1 per	1	100 ft	=	31 ea

XVII GENERAL CLOSURE OF SECTION

Revegetation Total Restricted Area Less Mixed Waste Cell

Fig 9301-4

Removal of signs Assume 2 days

Restoration of Grade Fill in any depressions not filled in previous sections, including the borrow area to the south:

HAUL TO LANDFILL

Debris Loading, hauling, and Disposal - assume 50 cy not covered previously; 100 miles round trip.

CLEANUP OF VARIOUS ITEMS

NOTE: equipment quantities derive in part from Approval Order by the Utah Division of Air Quality

Heavy Equipment - misc., assume 11

6-Wheel Trucks - assume 2, 3 days each to decontaminate

Bulldozers - assume 2, 2 days each to decontaminate

Front-end Loaders - assume 1, 1.5 days each to decontaminate

Backhoe - assume 2, 1.5 days each to decontaminate

Compactors - assume 1, wash 1/ day

Water Trucks - assume 3, 2 days each to decontaminate

Graders - assume 1, wash 1/day

Shredders - assume 2, wash 1 / day

Cats - assume 2, wash 1 / day

Pickup - assume 2, wash 4 / day

Rail Cars - 0 max - 1.5 days / car

JCB's - Assume 3, 3 days each to decontaminate

Forklifts - Assume 8, 1 day each to decontaminate

Other - Assume 1, 3 days each to decontaminate

XVIII STOCKPILE OF CLOSURE ASSETS

Envirocare will conservatively not take any credit for soil stockpiles.

XIX MOBILIZATION

Assume 1% of direct costs

XX CONTINGENCY

Assume 3% direct costs

XXI ENGINEERING AND REDESIGN

If the cell is to be closed prior to completion, the only major change will be to cell, adjusting footprints, etc.

The cover design will remain the same.

Assume 3% of direct cost.

XXII RESERVED

XXIII PROFIT AND OVERHEAD

Assume 7% of direct cost

XXIV MANAGEMENT FEE AND LEGAL EXPENSES

Assume 4% of direct cost for management; 1% of direct cost for legal fees

XXV DEQ OVERSIGHT OF PROJECT

Assume 3% of direct costs

XXVI POST OPERATIONAL MONITORING AND MAINTENANCE

Required for 100 years of post-closure period. 2 hours/ day for 1 week 10 hours per week Travel Off site Features 4 hours per year Access road Maintenance - Assume no maintenance needed for first five years; after that a dozer or grader 10 hr is needed for 1 day Hours of equipment 0.25 Hours of inspection Hours average per year. Fence Maintenance - Fence is essentially maintenance free; assume some vandalism or broken wires. Hour of inspection Hours repair per year Gates - assume some vandalism 1 Gate \$1,561 Every 5 Years Hours of inspection \$312.12 Average materials per year Sians 1 Sign 520 Every 10 Years Hours of inspection \$52.02 Average per year 1 Mon. \$4,162 Every 100 Years Monuments Hours of inspection 41.62 Average cost per year Wells \$3,567 Every 1 Well 10 Years Surface Completion per year \$100 Hours of inspection Average well replacement per year. \$356.65 \$100.00 Average surface completion \$456.65 Total average per year. 10 cy Slopes - largely maintenance free. 104 Every 5 Years No other material needed. Hours inspection 2 Hours of equipment 8 hr day 0.25 2 cy of riprap per year \$ 20.80 Average cost per year 102 Every Cell Structure -Riprap 10 cy 5 Years Equipment 10 hr 331.18 Every 5 Years 2 cy of riprap per year Average hours of equipment per year 2 Hours of Inspection and vegetation control Diversion Channels - inspect, remove vegetation, regrade Hours of inspection/ labor per year. Hours of equipment 8 hr day 0.25 Written report of inspection and Maintenance activities for regulators XXVII WATER SAMPLES -- RADIOLOGICAL (years 1-100) Number of wells - Ground Water Quality Discharge Permit total is Monitoring wells (Module VI) 14 Frequency - annual for 100 years post-closure monitoring period. Frequency Sampling - assume two field technicians for two days: Days per year total Analysis - radiologic parameters specified by Condition I.F.5 of GWQDP Average cost per sample to Envirocare. 1,274 Radiologic parameters Report - included in cost of analysis. XXVIII WATER SAMPLES -- RCRA (years 1-30) Number of wells - RCRA Permit total is Monitoring wells (Module VI) Frequency - annual for 30 years post-closure monitoring period. Frequency Sampling - assume two field technicians for two days: Days per year total Analysis - all field and radiologic parameters specified by Condition I.F.5 of GWQDP average cost per sample to Envirocare. \$ 2,250.42 RCRA parameters Report - included in cost of analysis. **EMBANKMENT SURVEY (years 1-30)** Fund for 30 year post-closure monitoring period. Aerial survey of Mixed Waste embankment: cost estimated on current cost of site-wide aerial survey AIRBORNE PARTICULATE MONITORING

XXX

To be performed only in the first year of post-closure 52 weekly visits.

GROSS ALPHA

Samples 9

52 Weeks (1 year) frequency

Personnel required for all required sampling 2

2 Days total

Analysis cost estimate from STL

ISOTOPIC ANALYSIS

6 Samples 1 Frequency

Analysis cost estimate from STL

XXXI SOIL SAMPLING

ALPHA

45 Samples1 Frequency

Analysis cost estimate from STL

ISOTOPIC ANALYSIS

6 Samples 1 Frequency

Analysis cost estimate from STL

XXXII VEGETATION SAMPLING

Information from 1994 Trust and Table 7.2 of Radiological Monitoring Program (mar 1995)

4 Samples1 Frequency

Analysis cost estimate from STL

XXXIII GAMMA EXPOSURE MONITORING

8 Samples

4 Frequency

Equipment - assume use "electret" reader owned by Envirocare

Analysis cost estimate from STL

XXXIV RADON EXPOSURE MONITORING

8 Samples

4 Frequency

Analysis cost estimate from STL